CONTRACTING NEWS

Of Special Interest to Engineers, Contractors, Builders and Manufacturers of Engineering and Building Supplies

Proposals

For Proposals Advertised See Pages 63 to 71 Inclusive

WATERWORKS

Bids Close.		See Eng. News-Record.
May 19.	Racine, Wis.	May 17
May 21.	Louisiana, Mo.	May 17
May 22.	Bishopville, S. C.	May 17
May 22.	New York, N. Y.	May 10
May 24.	Bradford, O. Adv. Apr. 17.	May 17
May 25.	Mt. Rainier, Md. Adv. May 3 and 10.	May 3
May 25.	Lowellville, O.	May 17
May 28.	Brantford, Ont.	May 17

SEWERS

May 19.	Whitehall, Mont.	May 10
May 21.	Indiapapolis, Ind.	May 17
May 22.	Oklahoma, Okla.	May 10
May 22.	Bishopville, S. C.	May 17
May 25.	Mt. Rainier, Md. Adv. May 3 and 10.	May 3
May 25.	Lakewood, O. Adv. Apr. 19.	Apr. 19
May 25.	Valparaiso, Ind.	May 10
May 25.	New York, N. Y.	May 17
May 28.	Syracuse, N. Y.	May 17
May 28.	West Burlington, Ia.	May 10
May 29.	Barberton, O. Adv. May 17.	May 17
May 29.	Jackson, Tenn. Adv. May 17.	May 17
May 29.	Leland, Miss. Adv. May 3 and 10.	May 10
May 29.	New Iberia, La.	May 17
May 31.	Creston, Ia.	May 17
May 31.	Jacksonville, Fla. Adv. May 17.	May 17
June 2.	Burlington, Wis.	May 10
June 5.	Newark, N. J.	May 10
June 5.	Auburn, N. Y. Adv. May 3 to May 17.	May 10
June 12.	Newark, N. J.	May 17

STRUCTURAL STEEL WORK

May 18.	Kansas City, Mo.	May 10
May 20.	Des Moines, Ia.	May 3
May 21.	Ashland, O.	May 10
May 21.	Allentown, Pa.	May 17
May 21.	Worthington, Minn.	May 17
May 21.	Plainfield, N. J.	May 17
May 22.	Camden, S. C. Adv. May 10 and 17.	May 10
May 24.	Dayton, O.	May 17
May 28.	Clifton, Ariz. Adv. May 3 and May 10.	May 3
June 6.	Dayton, O.	May 17

REINFORCED CONCRETE

May 21.	San Jose, Cal.	May 3
May 21.	Orohogo, Mo.	May 17
May 21.	Canton, O.	May 17
May 21.	Brookline, Mass.	May 17
May 22.	Philadelphia, Pa. Adv. May 10.	May 10
May 23.	Hamilton, O.	May 17
May 23.	Cambridge, Minn.	May 17
May 25.	Palatka, Fla.	May 17
June 5.	Elkader, Ia. Adv. May 17.	May 17

STREETS AND ROADS

May 19.	Paducah, Ky.	May 17
May 21.	Montesano, Wash.	May 10
May 21.	Orrville, O.	May 10
May 21.	Edgar, Ill.	May 10
May 21.	Roseau, Minn.	May 17
May 21.	De Ridder, La.	May 17
May 21.	Albany, N. Y.	May 17
May 21.	Ventura, Cal.	May 17
May 21.	San Leandro, Cal.	May 17
May 21.	Richmond, Va.	May 17
May 21.	Detroit, Mich.	May 17
May 22.	Newark, O.	Apr. 26
May 22.	Kinder, La.	May 10
May 22.	Jonesboro, Ark.	May 17
May 22.	Clarksville, Miss.	May 17
May 22.	Johnstown, O.	May 17
May 22.	Monmouth, Ore.	May 17
May 22.	Clarksville, Miss.	May 17
May 22.	Weehawken, N. J.	May 17
May 23.	Trenton, N. J.	May 10
May 23.	Jonesboro, Ark.	May 10
May 23.	Brooklyn, N. Y.	May 17
May 24.	Wellsburg, W. Va.	May 3
May 24.	Atlanta, Ga.	May 10
May 24.	Dayton, O.	May 17
May 24.	Hickory, N. C.	May 17
May 24.	Santa Barbara, Cal.	May 17
May 25.	Indiana	May 17
May 25.	Palatka, Fla.	May 10
May 25.	Jersey City, N. J. Adv. May 17.	May 17
May 26.	Alexandria, La.	May 3
May 26.	Bartow, Fla. Adv May 3 and 10.	May 10
May 26.	Wildwood, N. J.	May 17
May 27.	Sprague, Wash.	May 17
May 28.	Austin, Minn.	May 10
May 28.	Batavia, Cal.	May 10
May 28.	Montesano, Wash.	May 17
May 28.	Olympia, Wash.	May 17
May 28.	Owensville, Ky.	May 17
May 28.	Everett, Wash.	May 17
May 28.	California.	May 17
May 28.	Albany, N. Y. Adv. May 17.	May 17
May 29.	Charleston, S. C.	May 17
May 29.	Port Clinton, O	May 3
May 29	Lebanon, O.	May 10
May 29.	Cleveland, O.	May 17
May 29.	Port Angeles, Wash.	May 17
May 29.	Jersey City, N. J.	May 17
May 30.	Lenoir, N. C. Adv. Apr. 26.	Apr. 26
May 30.	Russellville, Ark.	May 17
May 30.	Greenville, Miss. Adv. May 17.	May 17
May 31.	Indiana	May 17
May 31.	Nashville, Mich. Adv. May 17.	May 17
May 31.	Milwaukee, Wis.	May 10
May 31.	Brainerd, Minn.	May 10
June 1.	Grove City, Pa. Adv. May 17.	May 17
June 2.	Dayton, O.	May 17
June 2.	Lakewood, N. J. Adv. May 17.	May 17
June 4.	Mishawaka, Ind.	May 10
June 4.	Westfield, N. J. Adv. May 17.	May 17
June 5.	Boulder, Colo.	May 17
June 5.	Indiana	May 17
June 5.	Yadkinville, N. C.	May 17
June 6.	Indiana	May 17
June 7.	Indiana	May 17
June 8.	Crowley, La.	May 10
June 11.	Fayetteville, W. Va.	May 17
June 12.	Harrisburg, Pa. Adv. May 17.	May 17

EXCAVATION AND DREDGING

May 19.	Watseka, Ill.	May 17
May 20.	Brownsville, Tenn.	May 17
May 22.	Clear Lake, S. D.	May 10
May 22.	Charles City, Ia.	May 17
May 23.	Jefferson, Ia.	May 17
May 24.	Ft. Dodge, Ia.	May 10
May 24.	Brooklyn, N. Y.	Maq 17
May 25.	Benson, Minn.	May 10
May 25.	Ft. Dodge, Ia.	May 17
May 26.	Peru, Ind.	May 17
May 26.	Luverne, Minn.	May 17
May 26.	Stillwater, Minn.	May 17
May 31.	Schuyler, Neb.	Apr. 26
May 29.	Albany, N. Y. Adv. May 3 to May 17.	May 3
May 29.	Youngsville, La.	May 17
June 1.	Cape Girardeau, Mo. Adv. May 17.	May 17
June 1.	Rushville, Ind. Adv. May 10 and 17.	May 17
June 1.	Scandia, Kan.	May 17
June 5.	Fremont, Neb.	May 17
June 7.	Madison, S. D. Adv. May 17.	May 17
June 12.	Algona, Ia.	May 17
June 14.	Lonoke, Ark. Adv. May 17.	May 17

BUILDINGS

May 19.	Hartford, Conn.	May 3
May 21.	Newark, N. J.	May 3
May 21.	Ironwood, Mich.	May 17
May 21.	Kewanee, Ill.	May 17
May 21.	Savannah, Ga.	May 17
May 21.	Celina, O.	May 17
May 21.	Gardner, Mass.	May 17
May 22.	Lake Andes, S. D.	May 3
May 22.	Napier, Ia.	May 10
May 24.	Tulsa, Okla.	May 3
May 24.	Lafayette, Ind.	May 17
May 24.	Paterson, N. J.	May 17
May 24.	Rice Lake, Wis.	May 17
May 25.	Central Islip, N. Y. Adv. May 17.	May 17
May 26.	Columbus, O.	Apr. 26
May 29.	Hoboken, N. J.	May 17
May 30.	Urbana, Ill. Adv. Apr. 26.	Apr. 26
June 2.	Redfield, S. D.	May 10
June 4.	Drake, N. D.	May 17
June 5.	Ness City, Kan.	May 17
June 6.	Canton, O.	May 17
June 9.	Jacksonville, Fla.	May 17

FEDERAL GOVERNMENT WORK

May 19.	Washington, D. C. Adv. Apr. 26.	Apr. 26
May 21.	Vallejo, Cal.	Apr. 26
May 21.	Cleveland, O. Adv. April 19 to May 10.	Apr. 26
May 21.	Wilmington, Del. Adv. Apr. 26 to May 17.	Apr. 26
May 21.	Kansas City, Mo. Adv. Apr. 26 to May 17.	Apr. 26
May 21	Philadelphia, Pa.	May 10
May 21	Norfolk, Va.	May 10
May 21	Boston, Mass.	May 10
May 21	Pensacola, Fla.	May 10
May 21	Portsmouth, N. H.	May 10
May 21.	Washington, D. C.	May 17
May 21.	Girard, Kan.	May 17
May 21.	Washington, D. C.	May 17
May 22.	Prescott, Ark.	May 17
May 22.	Wash., D. C.	May 17
May 23.	Garfield, N. M. Adv. Apr. 26.	Apr. 26
May 23.	Montgomery, Ala. Adv. May 3 to May 17.	Apr. 26
May 23.	Denver, Colo.	May 17
May 23.	Lakeland, Fla.	May 17
May 23.	Watertown, Mass.	May 17
May 24.	Indiana, Pa.	Apr. 26
May 25.	Washington, C. H. O.	Apr. 26
May 25.	New York, N. Y. Adv. May 17.	May 17
May 25.	Charleston, Ill.	May 17
May 28.	Jasper, Ala. Adv. Apr. 19 and 26.	Apr. 26
May 28.	Bremerton, Wash.	May 17
May 28.	Washington, D. C.	May 17
May 28.	La Crosse, Wis.	May 17
May 29.	Southbridge, Mass. Adv Apr. 19 and 26.	Apr. 26
May 29.	Berwick, Pa. Adv. Apr. 26 and May 3.	Apr. 26
May 29.	Charlotte, N. Y. Adv. May 10.	May 10
May 29.	New London, Conn. Adv. May 10 and May 17.	May 10
May 30.	Ft. Michie, N. Y.	Apr. 26
May 30.	Ft. Snelling, Minn. Adv. Apr. 26 and May 3.	May 17
May 31.	Washington, D. C. Adv. May 10 and May 17.	May 10
June 1.	New Albany, Ind.	May 10
June 2	Ft. Greble, R. I.	May 10
June 4.	Sanford, Fla.	May 10
June 4.	Wilmington, Del. Adv. May 10 and 17.	May 17
June 5.	Olney, Ill.	May 3
June 6.	Orange, Tex	May 3
June 6.	Golden Gate, Cal. Adv. May 17.	May 17
June 6.	Ft. Laramie, Wyo.	May 17
June 7.	Marion, Ill	May 3
June 8.	Denton, Tex.	May 17
June 9.	Montgomery, Ala. Adv. May 10.	May 10
June 11.	Bridgeport, Conn.	May 17
June 11.	New York, N. Y. Adv. May 17.	May 17
June 12.	State College, Pa. Adv. May 17.	May 17
June 14.	Cherryvale, Kan.	May 17
June 14.	Three Rivers, Cal.	May 17
June 16.	Montgomery, Ala. Adv. May 17.	May 17
June 18.	Akron, O.	May 17
June 19.	Montevideo, Minn.	May 17
June 19.	Aledo, Ill. Adv. May 17.	May 17
June 20.	Beaufort, S. C. Adv. May 17	May 17
June 21.	Cambridge, Md.	May 17
June 23.	Raton, N. M.	May 17

MISCELLANEOUS

May 21.	Pumping Plant—Louisiana, Mo. Adv. May 3 and 10.	May 10
May 21.	Pipe Line—Midvale, Utah	May 10
May 21.	Pier, Sewalls Point, Va.	May 17
May 21.	Culverts Roseau, Minn.	May 17
May 21.	Boardwalk, Newport Beach, Cal.	May 17
May 21.	Park Improvements, Albany, N. Y.	May 17

Bids Close.		See Eng. News-Record.
May 21.	Passenger Station. New York, N. Y.	May 17
May 21.	Street Lighting System, Bayard, Neb. Adv. May 17.	May 17
May 22.	Flood Protection. Columbus, O.	May 17
May 28.	Subway—Davis, Cal	May 10
May 29.	Refrigeration Equipment Thiells, N. Y. Adv. May 17.	May 17
May 31.	Dock Wall. Troy, N. Y. Adv. May 17.	May 17
June 4.	Jetty. Newport Beach, Cal Adv. May 17.	May 17

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

WATER-WORKS

Proposed Work

N. J., Perth Amboy—Bd. Water Comrs. plans to appropriate $200,000 to extend and improve water-works.

Va., Franklin—Town plans to spend $17,000 to install filter plant.

Va., Norfolk—City plans to spend $50,000 to extend water mains. W. H. Taylor, Jr., city engr.

S. C., Lake City—See "Sewers."

Ga., Thomasville—See "Streets and Roads."

O., East Palestine—City sold $20,000 bonds to improve water system. Noted May 3.

O., Marietta—See "Reinforced Concrete."

Wis., Wausau—City having plans prepared by E. G. Kirchhoffer, engr., Madison, for aerial filter plant. About $100,000.

Minn., Minneapolis—City plans to lay 2 mi. lateral water mains in various streets during year. W. R. Young, supt.

Neb., Norfolk—City election May 25 to vote on $10,000 bonds for extending water system. P. F. Stafford, clk.

Neb., Verdel—(Official)—City retained Gramlich & Wagner, engrs., Terminal Bldg., Lincoln, to make plans for water system. Bonds for work have been voted and bids will soon be received.

S. D., Milbank—City to sell $12,000 bonds May 25 to install water system. A. A. Blanquist, aud.

Mont., Poplar—Council plans to install water and sewerage systems.

Tex., Austin—City voted $600,000 bond issue to improve water system. E. S. Bartholomew, supt.

Tex., Carthage—City soon lets contract building water-works pumping plant and laying distributing system.

Tex., Corsicana—City voted $50,000 bonds to sink well. Noted Apr. 5.

Okla., Collinsville—City plans new reservoir and water plant north of city. About $55,000.

Okla., Red Fork—City election May 22 to vote on $20,000 bonds for water system.

Cal., San Dimas—See "Reinforced Concrete."

Cal., Santa Barbara—City election June 26 to vote on $590,000 bonds for completing water system, including earth reservoir, concrete and masonry dam and pipe lines. J. B. Lippincott and E. R. Bowen, Central Bldg., Los Angeles, engrs.

Bids Desired

S. C., Bishopville—See "Sewers."

O., Bradford—Until May 24 by Bd. Trustees Pub. Affairs for building extensions to present water system; advertised in this issue.

O., Lowellville—(Official)—Until May 25 by J. F. Lash, village clk., furnishing material and constructing water connections from main water line in Youngstown and Lowellville Rds., Wood and other streets. Noted Apr. 7.

Wis., Racine—(Official)—Until May 19 by Bd. Pub. Wks for water mains and sewer in 10 streets. P. H. Connolly, city engr.

Mo., Oronogo—See "Reinforced Concrete."

Ont., Brantford—Until May 28 by J. Fair, chn. Water Bd., for 2 electrically driven pumps, 300-gal. per minute capacity each, also electric motors and equipment.

Prices and Contracts Awarded

(★Indicates award of contract)

★Mass., Framingham—City let contract laying c.-i. and wrought-iron water pipe to G. Ferullo & Co., 31 North Sq., Boston.

Ga., Macon—City received low bids installing additional pumps at water-works from Allis-Chalmers Co., West Allis, Wis., Laidlow, Dunn-Gordon, H. R. Worthington and Hamilton-Corliss Engine Wks. About $30,000 to $40,000.

★Ga., Tennille—See "Sewers."

★O., Celina—Bd. Control let contract for water pipe extensions to A. H. Fishbaugh, $10,000.

★O., St. Marys—City let contract water and light plant and distributing system to Skeldon Engr. Co., 359 Spitzer Bldg. Toledo, $47,000.

★Ill., Joliet—See "Sewers."

Wis., Milwaukee—City received low bids installing pumping engine from Allis-Chalmers Co., West Allis, $175,000, and Worthington Pump and Machinery Corp., Clinton and Roberts Sts., Buffalo, $191,051. Noted Apr. 19.

★Wis., Mauston—City let contract building reservoir and installing sewers to DeLos Eng. and Constr. Co., Prairie du Chien.

★Minn., South Stillwater—City let contract water system, including concrete reservoir, brick and concrete pump house, machinery pipe line, etc., to Marion Machine Co., 183 University Ave., St. Paul.

★N. D., Fargo—City let contract water mains in portions 6th, 7th, 8th, 9th, 15th and 16th Sts. to Schruth & Jackson, Fargo, $45,000. Noted May 10.

★Tex., Electra—See "Sewers."

SEWERS

Proposed Work

N. J., Fanwood—City had plans prepared by Fuller & McClintock, engrs., for sewerage system involving 36,000 ft. sewer pipe. About $29,440. Address A. Nichols, North Ave.

Pa., Kittanning—City plans to build intercepting sewer and sewage-treatment works.

Pa., McKeesport—State Dept. Health approved plans sanitary sewers in 9th Ward, involving disinfection of sewage discharging to Youghiogheny.

S. C., Lake City—(Official)—City receives bids in October for complete sewerage and water-works systems involving 5 mi. mains 8- to 4-in., motor pumps, steel tank and tower and 50,000-gal. capacity reservoir. About $55,000. Noted May 3.

Ky., Louisville—Bd. Pub. Wks. rejected bids installing sewers in Pennsylvania and Field Ave. and Crescent Hill. About $22,000. New bids. Noted May 3.

O., Cleveland—City plans to install sewers in Linndale, Governor, Fortine and St. Marks Sts. R. Hoffman, city engr.

O., Hamilton—F. Weaver, city engr., submitted report estimating cost installing sewers, Dist. No. 3, East Hamilton, at $11,689.

O., Lakewood—City rejected bids installing lake outlet section of outfall sewer, involving excavation of trench in sand and shale along bottom of lake and laying 1100 ft. pipe. New bids. N. C. Gotabish, dir. dept. pub. wks. Noted Apr. 19.

Ind., Michigan City—City plans to install large storm sewer district in southern section of city. E. G. Dunn, city engr.

Ia., Chariton—City defeated $65,000 bonds to install sewers.

Ia., Sioux City—City soon lets contract sanitary sewers in portions 32nd and 15th St. T. H. Johnson, city engr.

Kan., Pittsburg—City plans to install sewage disposal plant. About $60,000. F. E. Schide, engr.

Mont., Poplar—See "Water-Works."

Tex., Dallas—City receiving bids about July 1 installing sewage-disposal plant. About $30,000. Noted Apr. 19.

Tex., Plainview—(Official)—City retained H. E. Elrod, engr., Interurban Bldg., Dallas, to make plans sewage-disposal plant.

Tex., Waco—City plans to improve sewers. About $150,000. Burns & McDonnell, 400 Inter-State Bldg., Kansas City, Mo., engrs.

Okla., Ada—City election May 25 to vote on $100,000 bonds to improve sewers. Benham Engr. Co., Colcord Bldg., Oklahoma, engrs.

Okla., Ardmore—City plans to install storm sewer district and septic tank in northwest section of city. A. Watson, city engr.

Idaho, Moscow—Council plans to install sewage disposal plant and enlarge entire sewer system.

Cal., Long Beach—City plans to install vitr. clay sewers in portion California, Myrtle and Chestnut Aves. and Anaheim, New York, 15th, 16th, 17th and Esther Sts. H. C. Waughop, clk.

Ont., Aurora—Town had plans prepared by James, Loudon & Hertzberg, engrs., Excelsior Life Bldg., Toronto, for sewerage system. About $80,000.

Bids Desired

N. Y., Albany—See "Streets and Roads."

N. Y., New York—Until May 25 by M. M. Marks, boro. pres., Contract No. 2, tunnel relief sewer and appurtenances in portion West 46th St.

N. Y., New York—Until May 25 by M. M. Marks, boro. pres., alteration to receiving basins, with inlets on portion Monroe St.; construction of receiving basins at 117th St. and 7th Ave. and at 5 other points; alteration and improvement to sewer in portion Madison St.

N. Y., Syracuse—(Official)—Until May 28 by City installing sewers known as 17th Ward Sewers, West Branch, involving 1 rein.-con. sedementation basin 24 x 54-ft. and 41,300 lin.ft. vitr. clay or concrete sewer. H. C. Allen, city engr.

N. J., Newark—Until June 12 by Passaic Valley Sewerage Comn. for Kearny-Harrison branch intercepting sewer, in Kingsland, Hamilton and Schuyler Aves.

S. C., Bishopville—Until May 22 by City installing sewerage and water systems involving 31,920 lin.ft. 8-in., 3900-ft. 12-in. and 7395-ft. 15-in. terra cotta; c.i. pipe, flush tanks, 1451-cu.yd. fill; rein.-con. sedimentation tank, etc. W. S. James, clk. J. B. McCrary Co., Atlanta, engrs.

Fla., Jacksonville—Until May 31 by Bd. Road Trustees for building certain sanitary sewers and furnishing material for same; advertised in this issue.

La., New Iberia—Until May 29 by Comrs. 1st Sewer Dist. installing sanitary sewerage system and disposal plants. C. L. Provost, secy. X. A. Kramer, Magnolia, Miss., engr.

Tenn., Jackson—Until May 29 by Bd. Comrs. for building public sanitary sewer extension, North Jackson, East Jackson, South Jackson and West Jackson; advertised in this issue.

O., Barberton—Until May 29 by Bd. Control for building sewage treatment plant; advertised in this issue.

Ind., Indianapolis—(Official)—Until May 21 by Bd. Pub. Wks. for West 10th St. main sewer, involving 8120 ft. from 2-ft. 6-in. to 6-ft. 6-in. diam. brick, concrete or segmental block, gravel excavation. About $90,000. B. J. T. Jeup, city engr. Noted Apr. 26.

Wis., Racine—See "Water-Works."

Ia., Creston—(Official)—Until May 31 by City for building sewage disposal plant, including 300,000-gal. Imhoff tank, dosing chamber, filter beds, etc., also outfall sewer extensions. T. S. De Lay, engr.

Ark., Jonesboro—See "Streets and Roads."

Wash., Port Angeles—See "Streets and Roads."

Prices and Contracts Awarded

(★Indicates award of contract)

Mass., Hyde Park—(Boston P. O.)—City received low bid installing sewerage system from A. Cefalo, 316 Belgrade Ave., Rosindale, $40,949.

★Conn., West Hartford—City let contract installing sewers in Auburn St. and Ross Ave. to W. T. Ryan Constr. Co., Park and Capitol Ave., Terrace and Hartford, $18,261.

★N. Y., Syracuse — (Official) — Intercepting Sewer Bd. let contract improving Onondaga Creek and extending main intercepting sewer system to J. Young, 509 Bastable Blk., $449,960.

★Pa., Johnstown—Council let contract installing 1 mi. main sanitary sewers to M. O'Herron Co., South 1st and McKean Sts., Pittsburgh, $130,620.

★Pa., Upper Darby—Comrs. let contract 5 mi. terra cotta sewers to C. J. Lawler, Bala, and Gibbons & Huckley, Lansdowne.

★Ga., Tennille—(Official)—City let contract 4 mi. sanitary sewers, hauling and laying 3600 ft. 6- and 8-in. water mains and 2-in. service pipe to J. P. Carter, Decatur, about $10,000. Noted Apr. 26.

★O., Barberton—City let contract 5 mi. sanitary sewers and pumping station to Hoag & Kall, 510 Commercial Bank Bldg., Cleveland, $123,573.

★O., Centersburg—(Official)—City let contract sewage-disposal plant and sewers to W. H. Ralston, Mt. Vernon, $10,006. Noted Apr. 19.

★O., Cleveland—Bd. Control let contract installing sewer in Williams Ave. to Donnelly & Graham, West 30th St., and Cleveland, Cincinnati, Chicago & St. Louis R.R., $23,507.

★Ohio, Lancaster—Dept. Pub. Serv. let contract 2½ mi. 8- to 36-in. sanitary sewers, Dist. 12, to W. Stracham.

★Ind., Frankfort—City let contract East End sanitary sewer to Michaels & Minich, Marion, $18,206.

★Mich., East Grand Rapids—(Grand Rapids P. O.)—City let contract installing sewers to Vander Wele Bros., $10,865.

★Mich., Lansing—City let contract installing sewers in portion Ellenwood St. to L. E. Ward, $66,500.

Ill., Chicago—Bd. Local Improv. let contract pipe and tile wing sewers, brick manholes and catch basins in Narragansett Ave. to P. J. McNulty Co., Chicago.

★Ill., Joliet—City let contract installing sewers and water mains in Taylor and Whitney Ave. to Curtis & Tindall.

★Wis., Madison—City let contract installing sewers to E. R. Harding Constr. Co., Racine, $300,000.

★Wis., Mauston—See "Water-Works."

Minn., Virginia—See "Streets and Roads."

★Neb., Omaha—City let contract completion of Saddle Creek storm sewer to J. J. Hanighen, 617-23 South 14th St., $62,629.

★Mo., Higginsville—City let contract installing sewers to O'Neil Constr. Co., Leavenworth, Kan., $30,626.

★Tex., Electra—City let contract sewerage system and extending water-works to M. Griffin O'Neal & Sons, 2516 McKenzie Ave., Dallas.

Sewers (Continued)

★**Okla., Carnegie**—City let contract installing sanitary sewers to James Constr. Co., Guthrie, $20,940.

★**Cal., Stockton**—City let contract sewer to J. Heafey, 22 Mesa Ave., Oakland, $56,909. Noted Apr. 12.

STRUCTURAL STEEL

Proposed Work

Fla., Gainesville—See "Streets and Roads."

Fla., Tampa—See "Streets and Roads."

La., Lake Providence—County plans to build bridges. About $100,000 available. C. S. Wyly, secy.

Tenn., Clarksville—County defeated $150,000 bonds to build 2 bridges over Cumberland River.

O., Cleveland—Cleveland, Cincinnati, Chicago & St. Louis R.R. plans to build lift bridge. C. A. Paquette, Cincinnati, engr.

Minn., Aitkin—See "Streets and Roads."

Minn., Olivia—See "Streets and Roads."

N. M., San Jon—See "Streets and Roads."

Cal., Oakland—County election Aug. 14 to vote on $2,000,000 bonds to be used as follows: $500,000 county's share toward cost bascule bridge over Estuary; $1,000,000 new county hospital; $500,000 improving present county infirmary.

Que., Montreal—City plans to build steel bridge. About $210,000. P. Mercier, engr.

Ont., Toronto—See "Railways."

Bids Desired

N. J., Plainfield—Until May 21 by Somerset and Union Cos. steel beam deck bridge over Green Brook between North Plainfield and New Providence and over Green Brook on Norwood Ave., Plainfield. J. Doughty, Jr., Somerville, co. engr.

Pa., Allentown—Until May 21 by C. J. Dilcher, co. controller, repairing Lehigh St. Bridge.

O., Dayton—(Official)—Until May 24 by Co. Comrs. for east approach to Bridge 76, Randolph Twp., including 2661 cu.yd. embankment, 185 cu.yd. gravel, 460 lin ft. guard rail, also repairing superstructure Needmore Rd. Bridge over Great Miami River. W. H. Aszling, clk.

Prices and Contracts Awarded

(★Indicates award of contract)

★**Pa., Norristown**—(Official)—City let contract improving Hanover St. Bridge over Schuylkill River to Pittsburgh Constr. Co., Diamond Bank Bldg., Pittsburgh, $32,000. Noted Apr. 26.

★**Ala., Cordova**—St. Louis & San Francisco R.R. let contract bridge over Warrior River to Virginia Bridge and Iron Co., Roanoke, $125,000.

Wash., Seattle—Bridge Dept. received low bid West Spokane St. Bridge from J. A. McEachern Co., Bell St. Dock, $61,606.

★**Que., St. Felix de Valois**—Council let contract steel bridge to Phœnix Bridge & Iron Works, 83 Colbourne St., Montreal.

★**Ont., Tilbury**—Council let contract steel for 4 bridges to Stratford Bridge & Iron Co., 91-97 Erie St., Stratford.

REINFORCED CONCRETE

Proposed Work

N. J., Somerville—Bd. Freeholders plan to build rein.-con. bridges at East Cliff, East High and North Bridge St., Somerville, and near Hicks and Rocky Hill.

O., Marietta—Council soon lets contract installing rein.-con. reservoir. About $75,000. M. W. Morse, supt.

Wis., Milwaukee—Holeproof Hosiery Co., 57-59 4th St., plans 6-story, 80 x 100-ft., rein.-con. addition, with 1-story, 70 x 100-ft. extension.

Mont., Butte—Y. M. C. A. completed plans rein.-con. building at West Park and Washington Sts. About $250,000. F. Hamil, Hennessy Bldg., archt.

Tex., Hereford—(Official)—County soon lets contract building rein.-con. bridges and culverts and improving several miles earth roads. Bryant & Huffman, engrs.

Tex., San Antonio—Armour & Co., Union Stock Yards, Chicago, prepared plans 3-story, rein.-con. packing plant. About $100,000.

Wash., Olympia—Co. Comrs. appropriated $40,000 toward cost rein.-con. bridge over Des Chutes River, on West 4th St. Cost, $80,000. Noted Apr. 12.

Cal., Littlerock—Littlerock Irrigation Dist., plans to irrigate by taking flood waters from Littlerock Creek, and will construct reservoir and concrete dam, 75 ft. high and 450 ft. high. About $75,000.

Cal., San Andreas—C. W. Landis, San Francisco, applied to State Water Comn. for permission to appropriate 3000 cu.ft. per second of waters of Mokelumne River for irrigation purposes. Project includes dam 85 ft. high, 1400 ft. long on top and 1200 ft. at bottom, rein.-con. multiple arch type, capable of forming reservoir with capacity of 250,000-acre-ft. storage, located on Rancho Arroyo Seco, to water 150,000 acres. About $600,000.

Cal., San Diego—G. Cromwell, city engr., preparing plans removal of debris and excavating for foundation for Lower Otay Dam, rein. con., this work to be done by contract. Incoming City Council will decide whether dam will be constructed by contract or by City Operating Dept., of which F. M. Lockwood is mgr. About $682,200 available. M. M. O'Shaughnessy, 2732 Vallejo Ave., San Francisco, supt. con. engr. Noted May 3.

Cal., San Dimas—San Dimas Water Co. soon lets contract 7,000,000-gal. rein.-con. reservoir.

Man., Winnipeg—City plans steel and concrete bridge over Assiniboine River. About $200,000. W. P. Brereton, 223 James Ave., city engr.

Bids Desired

Mass., Brookline—(Official)—Until May 21 by Bd. Selectmen, Town Hall, for rein.-con. subway, under tracks of Boston & Albany R.R., near Beaconsfield station. H. A. Varney, town engr.

N. Y., New York—Until May 24 by Park Bd., Municipal Bldg., for concrete bulkhead along waterfront of Corlears Hook Park. Noted May 3.

Fla., Palatka—Until May 25 by Co. Comrs. building 2 rein.-con. bridges and 5 culverts. R. J. Hancock, clk.

O., Canton—Until May 21 by W. C. Schick, clk. co. comrs., new concrete arch bridge, Bethlehem Twp.

O., Hamilton—Until May 23 by W. W. Crawford, clk. bd. co. comrs., building concrete and steel bridge in Milford Twp.

Ia., Elkader—Until June 5 by County 287 ft. rein.-con. highway bridge, main span 144 ft. long. A. H. Andreae, co. aud. Advertised in this issue.

Minn., Cambridge—Until May 23 by county rein.-con. culvert, 6 x 4 x 24 ft. involving 2540 lbs. steel, 22 cu.yd. concrete. G. C. Smith, co. aud.

Mo., Oronogo—(Official)—Until May 21 by city rein.-con. reservoir, pumps, etc.

Prices and Contracts Awarded

(★Indicates award of contract)

Mass., Boston—Massachusetts Highway Comn. received low bids concrete bridge, Methuen Twp. from Middlesex Constr. Co., Medford, $22,675; Rendle & Stoddart Co., 22 Falcon St., East Boston, $12,500.

★**N. Y., Buffalo**—Buffalo Union Furnace Co., Hamburg St., let contract 800-ft. concrete dock to Great Lakes Dredge & Dock Co., Morgan Bldg.

★**W. Va., South Charleston**—E. C. Klipstein & Sons Co., 644 Greenwich St., New York City, let contract rein.-con. and steel buildings to W. L. Crowe Constr. Co., 103 Park Ave., New York City.

★**Fla., Sarasota**—City let contract concrete extension and rebuilding pier to Luten Bridge Co., West Market St., York, Pa. About $18,000.

★**Ind., Indianapolis**—County let contract rein.-con. retaining wall along Fall Creek at Millersville Rd., to Kuert Contr. Co., 608 Majestic Bldg., $15,900.

★**Ind., Indianapolis**—North Meridian Realty Co. let contract 3-story, rein.-con. automobile sales and service station at Meridian and 11th St. to International Constr. Co. About $200,000.

★**Mich., Detroit**—Detroit Motor Sales Co., Inc., Ash and West Grand Blvd., let contract 3-story, rein.-con. garage, Michigan St., to G. A. Mueller, 804 Brtmyr Bldg., $60,000.

★**Mich., Flint**—(Official)—Council let contract 2 span rein.-con. arch bridge over Flint River to Illinois Bridge Co., 53 West Jackson Blvd., Chicago, $55,000. Noted Apr. 19.

★**Wis., Milwaukee**—Monarch Mfg. Co., 79 Chicago St., let contract 5-story, rein.-con. factory, East Water St. and Bway. to Riesen Bros. Co., 1003 1st Natl. Bank Bldg.

★**Neb., Omaha**—Peterson & Pegau Co., 3610 North 30th St., let contract rein.-con. factory to W. Peterson, 300 Natl. Fidelity & Casualty Bldg., $300,000.

★**Neb., Scottsbluff**—Raymond Bros.-Clark Co. let contract rein.-con. branch wholesale house to W. J. Assenmacher Co., Lincoln. About $60,000.

★**Cal., Los Angeles**—J. J. Haggarty, 321 South Bway., let contract, 4-story, rein.-con. store building Grand Ave. and 7th St., to W. C. Crowell, 440 Chamber of Commerce Bldg., Pasadena, $66,500.

STREETS AND ROADS

Proposed Work

Mass., New Bedford—Bd. Aldermen plans to improve streets. About $200,000.

R. I., Providence—(Official)—State Bd. Pub. Rds. rejected bids road work in various twps. J. W. Patterson, engr. Noted May 3.

N. Y., Oswego—Bd. Supervs. appropriated $65,100 to build 21.7 mi. highways.

N. J., Elizabeth—Bd. Pub. Wks. plans to pave portion Linden Ave., sheet asphalt on concrete base and Mellon Pl., brick, 6-in. concrete foundation. T. E. Collins, city engr.

N. J., Weehawken—Town Council, West New York, plans to pave portion Bergenline Ave., asphalt block or bituminous concrete, concrete base. C. Swenson, clk.

Pa., Harrisburg—F. B. Blauck, highway comr., soon receives bids concrete road. About $90,000.

Pa., Harrisburg—(Official)—State Highway Dept. rejected bids opened May 3 improving roads in Alleghany, Cambria, Dauphin and Washington Cos. as amounts exceeded appropriation. New bids. Noted May 10.

Pa., Lewisburg—County plans to repair 30 mi. road. W. Frick, co. engr.

Va., Covington—City having plans prepared estimating cost paving 3 to 3½ mi. streets, sheet asphalt, asphaltic block and vitr. block; also 4½ and 5 mi. concrete curbing. About $150,000. C. P. Barnett, Covington, Ky., engr.

Va., Winchester—City plans to resurface and treat with tarvia seal coat 150,000 sq.yd. macadam roads. W. H. Hayslett, city engr.

W. Va., Charleston—Elk. Dist., Kanawha Co. postponed election to vote on $335,000 bonds for road work indefinitely. Noted Apr. 5.

W. Va., Edgewood—City voted bonds to improve streets.

W. Va., Hamlin—County voted $675,000 bonds to build roads, plans include hard surfacing 3 main roads to Cabell, Boone, Logan and Kanawha Co. lines. Noted Apr. 5.

W. Va., Martinsburg—City voted $115,000 bonds to pave streets, brick and asphalt macadam. E. D. Bromley, city engr.

N. C., Jefferson—County defeated $200,000 bond issue to build roads. Noted Apr. 19.

S. C., Abbeville—County election Aug. 7 to vote on $300,000 bonds to build roads.

Ga., Montezuma—City election May 30 to vote on $25,000 bonds to pave streets.

Ga., Thomasville—City voted $160,000 bonds to pave streets and improve water and light plant; also for new fire alarm system. W. Miller, city engr. Noted Apr. 19.

Fla., Gainesville—County voted $500,000 bonds to build roads and bridges, Dist. No. 5. W. B. Taylor, bond trustee.

Fla., Tampa—County voted $100,000 bonds to build 13.7 mi. hard-surface roads, also necessary bridges. Noted Apr. 5.

Miss., Yazoo City—County rejected bids 247,000 sq.yd. asphalt surfacing in Supervs. Dist. No. 3. New bids. G. R. Thomas, engr.

Miss., Yazoo City—City rejected bids improving roads, Dist. No. 1. New bids. G. R. Thomas, engr.

Tenn., Athens—County defeated $300,000 bonds to build roads. Noted Apr. 19.

Tenn., Centreville—County plans to build 45-mi. road. Bonds for $225,000 recently voted for project.

Tenn., Erwin—County voted $100,000 bonds to build roads.

Tenn., Maynardville—County receiving bids about June 21 building macadam roads. About $50,000. J. McDonald, Maynardville, engr. Noted Apr. 5.

Tenn., Wartsburg—Pike Rd. Comn. soon lets contract building 30 mi. roads. About $200,000. G. Davis, chn. Noted Apr. 19.

Ky., Covington—City sold $20,000 bonds to extend Holman St. H. G. Meiners, city engr.

O., Cleveland—City plans to improve portion East 55th, Sideway, Remusand, East 129th Sts. R. Hoffman, city engr.

O., Fostoria—City plans to grade, curb and pave portion Popular St. C. A. Latshaw, city engr.

O., Marietta—City plans to pave portion Spring, Vine, Poplar, Chestnut and Holley Sts. F. Gates, city engr.

O., Newark—City plans to pave portions Evans, Bunea Vista, St. Clair and Florence Sts. and Arlington Ave. C. H. Wells, city engr.

O., St. Bernard—(Official)—(Cincinnati P. O.)—City to sell $70,000 bonds May 31 to grade, resurface, pave and set curbs and repair roadways in portions Tower, Washington, Sullivan and Railroad Aves., Bertus and Albert Sts. W. L. Taylor, aud.

O., Toledo—State and County plans to rebuild River Rd., south of Maumee. About $150,000; cost to be divided equally between state and county.

O., Toledo—State appropriated $35,975 to rebuild Jerusalem Rd. and resurface Central and Detroit Aves.

Mich., Ganges—Town voted $50,000 bonds to improve roads.

Mich., L'Anse—County plans to spend $450,000 to build 55-mi. road.

Ill., Rock Island—City Council passed ordinance for brick paving on portions of 13th Ave., $20,448; 24th St., $21,330; 24½ St., asphalt, $10,899. W. Treichler, city engr.

Wis., Appelton—County plans to spend $450,000 to build concrete roads during year.

Wis., Hartford—County plans election to vote on $500,000 bonds to build roads. A. Thielman, co. aud.

Wis., Racine—County plans to spend $90,380 to build roads during year.

Minn., Aitkin—State appropriated $18,000 bonds for road and bridge work in county during year.

Streets and Roads (Continued)

Minn., Bagley—County plans to spend $72,000 to build portion Jefferson Highway. H. K. Rude, co. aud.

Minn., Chisholm—Village plans to pave 6 blocks, cost $12,000; also build sidewalks and curbs to cost $10,000. B. E. Culver, clk.

Minn., Olivia—State appropriated $17,000 to build roads and bridges in county. J. L. Johnson, co. aud. Noted Apr. 19.

Minn., Red Wing—State to appropriate $18,500 to build roads in county. C. H. Mayer, co. aud.

Minn., Stillwater—County to sell $10,000 bonds to pay share toward building road around White Bear Lake.

Minn., Wabash—County plans to spend $20,000 to improve roads. J. E. Schmidt, chn. bd. comrs.

Mont., Bozeman—Council plans to grade and pave South Black Ave. et al. Cost $12,817 to $17,501. C. C. Widener, city engr.

Mont., Livingston—County plans to spend $60,000 to build highways between Livingston and Gardiner. C. A. Burg, co. clk.

Tex., Bastrop—County election May 26 to vote on $150,000 bonds to build roads in Elgin Precinct.

Tex., Boerne—County voted $40,000 bonds to build roads.

Tex., Bonham—County plans election to vote on $12,000 bonds to build roads, Hail Rd. Dist.

Tex., Cold Spring—County election May 19 to vote on $35,000 bonds to build roads, Rd. Dist. No. 3.

Tex., Dallas—County plans to spend $700,000 to build roads during year.

Tex., Hereford—See "Reinforced Concrete."

Tex., Mt. Vernon—County election May 19 to vote on $1,000,000 bonds to build roads.

Tex., Naples—County election May 24 to vote on $30,000 bonds to build roads in Naples Precinct.

Tex., Newton—County election June 5 to vote on $100,000 bonds to build roads in Precinct No. 1, including Deweyville.

Tex., Paris—County defeated $1,000,000 bonds to build roads.

Tex., Van Alstyne—County plans election to vote on $140,000 bonds to build roads, Van Alstyne Good Rd. Dist. Address Co. Clk., Sherman.

Okla., Ardmore—City lets contract about June 1 paving 12 blocks, rein.-con. and 6 blocks, asphaltic concrete on macadam base. A. Watson, city engr.

N. M., San Jon—City election June 9 to vote on $94,000 bonds to improve roads and build bridges.

Utah, Provo—County voted $750,000 bonds to build roads.

Ariz., Tucson—A. Goetz, co. engr., preparing plans resurfacing Speedway and rebuilding portion Wilmot Rd.

Wash., Wapato—Council plans to lay concrete cement sidewalks on Wapato Ave. et al. About $15,000.

Wash., Waterville—County soon receives bids building permanent highways Nos. 4-A and 5. R. F. Foster, co. engr., preparing plans.

Cal., Fresno—Bd. Trustees plan to improve Grant Ave. B. E. Cronkite, city engr.

Cal., Fresno—S. McKay Co., surv., making surveys building 5-mi. road, eastern section of county.

Cal., Martinez—Bd. Supervs. plans to build highway between Concord and Pittsburg.

Cal., Sacramento—State Highway Comn. rejected bids paving Highways Nos. 13 and 15, 5.43 mi., Sacramento-Freeport Rd. and 3.36-mi. Pocket Rd. New bids.

Cal., San Diego—City plans to pave 24 mi. highways between center of city and Torrey Pines. About $206,000. G. Cromwell, ctiy engr.

Cal., San Diego—G. Cromwell, city engr., estimated cost paving East Blvd. at Ocean Beach and Old Town routes at $206,375.

Que., Montreal—Bd. Control appropriated $103,000 to pave streets. P. E. Mercier, city engr.

Bids Desired

N. Y., Albany—(Official)—Until May 21 by Bd. Contract and Supply brick paving, concrete and vitr. brick walks, vitr. pipe sewers and appurtenances in portions Bradford and Rawson Sts. I. Wachsman, secy.

N. Y., Albany—Until May 28 by W. W. Wotherspoon, state comn. highways, 55 Lancaster St., repairing highways in various counties; advertised in this issue.

N. J., Jersey City—(Official)—Until May 29 by Bd. Comrs. paving portion St. Paul Ave., brick and repaving portion West Side Ave., granite block. M. I. Fagen, clk.

N. J., Jersey City—(Official)—Until May 25 by Blvd. Comrs. of Hudson Co., Court House, for repaving 3 sections Hudson Blvd.; advertised in this issue.

N. J., Lakewood—(Official)—Until June 2 by G. H. Hurlburt, twp. clk., paving portions of Lexington, 4th, East 4th and Clover St., concrete; advertised in this issue.

N. J., Weehawken—Until May 22 by Town Council, West New York, paving portion Jackson St. and Murphy Pl., asphalt block or bituminous concrete, concrete base. C. Swenson, clk.

N. J., Westfield—(Official)—Until June 4 by town council, improving various streets; advertised in this issue.

N. J., Wildwood—(Official)—Until May 26 by Boro. for gravel shouldering boulevard approach to Wildwood, 1½ mi. L. Rice, engr.

Pa., Grove City—Until June 1 by L. L. McKay, boro. secy., for paving, curbing and grading portions Blaine and 2nd Sts.; advertised in this issue.

Pa., Harrisburg—Until June 12 by Pennsylvania State Highway Dept. for road work in various twps.; advertised in this issue.

Va., Richmond—Until May 21 by State Highway Comn. for 1-mi. gravel road between Osborne Turnpike and Wilson's Mill, Henrico Co., also 25-ft. rein.-con. bridge over Deep Creek. G. P. Coleman, comr.

W. Va., Fayetteville—Until June 11 by Fayette Co., Sewell Mountain Dist., for road from Thurmond to Echo Mountain Rd., 1.8-mi., to include retaining walls. T. F. Malloy, Landisburg, rd. engr.

W. Va., Fayetteville—Until June 11 by Fayette Co. for grading and draining James River and Kanawha Turnpike, Falls Dist., from Kanawha Co. line to Mountain Cove Dist. line, 14.5-mi., including retaining walls. T. F. Malloy, Landisburg, rd. engr.

N. C., Hickory—Until May 24 by J. W. Balew, city mgr., paving 40,000 sq.yd., sheet asphalt. J. N. Amber, engr.

N. C., Yadkinville—Until June 5 by Co. Comrs. for 27-mi. sand clay roads. E. C. Mayberry, secy.

S. C., Charleston—Until May 29 by J. H. Dingle, city engr., paving 20,000 sq.yd. sheet asphalt, and 1000 sq.yd. creosoted wood block.

Fla., Ft. Lauderdale — Until June 5 by County surfacing 15-mi. road, A, B, C and D, Special Rd and Bridge Dist. No. 1; plans call for rock surfacing only, 12 ft. wide, 8 in. thick. H. C. Davis, engr.

Miss., Clarksville—Until May 22 by City Comrs. paving 30,000 sq.yd. asphaltic concrete, 7000 lin.ft. curb and gutter, inlets, etc. W. S. Bobo, city engr.

Miss., Greenville—(Official)—Until May 30 by Highway Comn., surfacing 180,000 sq.yd. highways; advertised in this issue.

La., De Ridder—Until May 21 by County building 138.15-mi. road. L. S. Bryant, engr.

Ky., Owensville—Until May 28 by I. H. Hickman, mayor, surfacing 44,000-sq.yd. macadam streets with asphalt. H. M. Talbot, city engr.

Ky., Paducah—Until May 19 by G. G. Singleton, co. clk., resurfacing 35 mi. roads with gravel and 3 mi. concrete, rock, asphalt, tarvia or asphaltum penetration, involving 115,686 cu.yd. excavation, 52,077 cu.yd. gravel surface, 1222 cu.yd. concrete. Noted Apr. 5.

O., Cleveland—Until May 29 by City, improving Forest Hill Pkwy. R. Hoffman, city engr.

O., Dayton—Until June 2 by Co. Comrs., paving portion Keowee St. About $56,000. Noted May 10.

O., Dayton—(Official)—Until May 24 by Co. Comrs. paving Central Ave. through village of West Carrollton, brick. W. H. Aszling, clk.

O., Johnstown—(Official)—Until May 22 by E. H. French, village clk., improving portion Coshocton St., brick on concrete base.

O., Orrville—(Official)—Until May 21 by A. Jenny, village clk., improving portion South Main St.

Indiana—By Co. Comrs. for building roads as follows: May 25: Anderson, 2 gravel roads, Stoneycreek Twp., brick and brick and concrete road, Anderson Twp., E. T. Flahavin, aud. May 31: Evansville, road in Armstrong Twp., C. P. Beard, aud. June 5: Rensselaer, 2 stone roads, Marion Twp., 6 stone roads, Barkeley Twp., J. P. Hammond, aud. Corydon, stone road, on line Spencer, Scott and Harrison Twps. S. C. Mauck, aud. Knox, roads in Washington and Center Twps. C. W. Weninger, aud. June 6: Shelbyville, completion of unfinished road improvement, Sugar Creek Twp. F. W. Fagel, aud. June 7: Valparaiso, gravel road, Union Twp. C. A. Blachy, aud.

Mich., Nashville—Until May 31 by F. K. Nelson, village clk., paving and improving portion Main St., brick; advertised in this issue.

Minn., Roseau—Until May 21 by county building Clear River State Rd. A. Chapin, co. engr.

Ark., Jonesboro—Until May 22 by Bd. Comrs. St. Improv., Dist. No. 16 for paving streets involving 154,000-sq.yd., vitr. brick, asphaltic concrete, bitulithic and bitustone, 7,860 lin.ft. plain curbing, 129,000 lin.ft. combined curb and gutter, 30,000 cu.yd. excavation, 160 inlets, 400 ft. 12-in., 1200 ft. 15-in., 6300 ft. 18-in. and 450 ft. 24-in. vitr. pipe, 1450 ft. 36-in. 1 ring brick sewer. E. C. Stuck, pres.

Ark., Russellville—Until May 30 by Comrs. Paving Improv. Dist. No. 1 paving 24,000 sq.yd. concrete, asphaltic macadam or tarvia; also 16,000 lin.ft. 12-in. curbing.

Colo., Boulder—Until June 5 by City for paving streets. G. R. Joslyn, city engr. Noted May 10.

Wash., Everett—Until May 28 by Co. Comrs. hard surfacing portion Bond Issue Proposition No. 18. M. Weatherbee, co. aud.

Wash., Montesano—Until May 28 by W. D. Campbell, co. aud., building 1-mi. road; asphaltic concrete, concrete base.

Wash., Olympia—Until May 28 by State Highway Bd. surfacing 7.25-mi. Inland Empire Highway.

Wash., Port Angeles—(Official)—Until May 29 by City Clk. paving 2nd and 3rd Aves., concrete, cost, $23,100; also installing sewers in 1st St. Noted Apr. 19.

Wash., Sprague—Until May 27 by J. F. Hall, city clk., paving, curbing and draining 13 blocks. Sawyer Bros., Lindell Blk., Spokane, engr. Noted Apr. 12.

Ore., Monmouth—(Official)—Until May 22 by R. B. Swenson, city recdr., paving 5300 sq.yd. 5½-in. concrete base and 2-in. wearing surface, etc.

California—(Official)—Until May 28 by State Highway Comn., 515 Forum Bldg., Sacramento, paving 8.4 mi., Solano Co., Batavia to Putah Creek; 9 mi., Santa Barbara Co., Zaca Station to Los Alamos; 9 mi., Tulare Co., Visalia to Tulare; 4.9 mi., Ventura Co., Santa Clara River to Ventura; portland cement concrete. A. B. Fletcher, highway engr.

Cal., Santa Barbara—(Official)—Until May 24 by A. Christine, city clk., improving portion Bath Ave., concrete curbs, 3-ft. gutter, 4-in. concrete base, 1½-in. warrenite surface. About $65,000. A. B. Cook, city engr.

Prices and Contracts Awarded

(★Indicates award of contract)

★**Mass., Boston**—Massachusetts Highway Comn. let contract building highway Grafton Twp. to R. H. Newell & Co., Uxbridge, $50,760.

★**Mass., Boston**—Boston Transit Comn., 15 Beacon St., let contract paving Summer St. and Dorchester Ave. to H. S. Clark, 11 Montague St., Dorchester, $65,789.

Mass., New Bedford—Massachusetts Waterways Comn. received low bids furnishing and laying granite block paving on State Pier from G. Ferullo & Co., Boston, $14,560, H. C. Lawton, 407 Union St., New Bedford, $15,050; Simpson Bros. Corp., 166 Devonshire St., Boston, $15,225; if local block is used La France & Roesbeck Co., New Bedford, $13,615 and G. Ferulle & Co., Boston, $13,930.

N. Y., Albany—(Official)—State Highway Comn., 55 Lancaster St., received low bids May 7 improving highways in various counties as follows: Road No. 1447, Brant-North Collins, Erie Co., 4.50 mi., Rossney Contract. Corp. Buffalo, $74,409; Road No. 1490, Barnes Corners-West Lowville, Part 1, Lewis Co., 5.37 mi. Dale Eng. Co., Utica, $57,940; Road No. 410, Fort Plain-Hesseville-Sprout Brook, Montgomery Co., 5.66 mi., W. C. Flannery, Oneonta, $47,826.81; Road No. 5605, Utica City-Oneida St., Oneida Co., 0.53 mi., H. W. Roberts & Co., Utica, $27,649; Road No. 5640, Camden Village, Church, Main and Mexico Sts. Oneida Co., 1.27 mi., H. W. Roberts Co., Utica, $56,262, Wm. Brennan, Herkimer, $56,289; Road No. 1506, Jordan-Baldwinsville, Part 1, Onondaga Co., 5.52 mi., Dale Eng. Co., Utica, $63,995; Road No. 5630, Weedsport-Jordan, Part 2, Onondaga Co., 1.76 mi., C. F. Sullivan, Syracuse, $40,982; Road No. 1502, Short Clove, Rockland Co., 0.24 mi., E. Cavallo, Haverstraw, $15,472, County of Rockland, Stony Point, $15,618, J. A. Jova, Newburgh, $16,635; Road No. 5577, Middleburg-Breakabeen, Schoharie Co., 7.96 mi., Lane Constr. Corp., Meriden, Conn., $130,867; Road No. 1103, Hartsville-Canisteo, Steuben Co., 5.59 mi., Kennedy Constr. Co., Albany, $98,465; Road No. 1048, Smithtown-Fort Salonga, Part 1, Suffolk Co., 3.87 mi., R. W. Smith Corp., New York City, $13,989, James McAvoy, New York City, $17,409; Road No. 1464, High Falls-Stone Ridge, Ulster Co., 1.80 mi., Conway Brothers & Kennedy, Eddyville, $28,724, J. Walker, Albany, $28,974; Road No. 5606, Tuckahoe-White Plains, Part 2, Westchester Co., 2.74 mi., J. McAvoy, New York City, $67,809, Wilkes-Casey Eng. & Contstr. Co., New Rochelle, N. Y., $80,303. Noted May 4.

N. Y., New York—(Official)—City received low bids regulating and repaving portion 5th Ave. from Asphalt Constr. Co., Madison Ave. and 137th St., $55,284.

N. J., Bound Brook—(Official)—Mayor and Boro. Council received low bids paving 11,400 sq.yd. brick, (a) Penn Clay, (b) Bessemer, (c) Clydedale, (d) Mack, (e) Mayer, (f) United, (g) Medal, from S. Sampson, 902 Bond St., Elizabeth, (a) $36,708, (b) $36,936; Hickey & Houghton, Somerville, (a) $41,522, (b) $41,118, (c) $41,724, (d) $41,838; Frank Cannon, 522 Tillman St., Allentown, (b) $44,232, (c) $42,180, (d) $42,522, (e) $42,066, (f) $43,206, (g) $41,004. Noted Apr. 26.

Streets and Roads (Continued)

★N. J., **Cranford**—Bd. Freeholders let contract paving Springfield Ave. to J. Dorer, Irvington, $38,939.

★N. J., **East Orange**—Council let contract paving Washington Ave. to R. Sangiovanni, 78 Hoyt St., Newark, $52,080.

★N. J., **Elizabeth**—(Official)—Bd. Freeholders let contract repairing 2 streets involving 19,157-sq.yd. concrete foundation to C. H. Wiman Co., Elizabeth, $19,953. Noted May 3.

★N. J., **Newark**—Bd. Freedholders let contract paving portion Franklin St. to Northern Constr. Co., 665 Broad St., $139,496.

★Pa., **Bradford**—(Official)—City let contract paving 7 streets, 28,000 yd., to J. Johnson Constr. Co., 765 Abbot Rd., Buffalo, and W. Applegate, Bradford. Noted Apr. 12.

★Md., **Denton**—County let contract building 1½-mi. stone macadam road from Federalsburg toward Preston to Juniata Paving Co., Phila., $16,000. Noted Apr. 19.

★W. Va., **Clarksburg**—County let contract grading and paving portion Fairmont and Clarksburg pike and Bingamon Rd. to Atlantic Bitulithic Co., Richmond, Va. Noted Apr. 19.

★N. C., **Louisburg**—Town Comrs. let contract paving 40,000-sq.yd., asphalt, also concrete curb and gutter to R. G. Lassiter, Oxford.

★S. C., **Greenville**—City let contract paving 50,000 sq.yd. streets to West Constr. Co., Chattanooga, Tenn., $94,386; 6000 sq.yd. sidewalks to Greenville Tile Co., $11,095.

★Fla., **Taveres**—(Official)—Bd. Co. Comrs. let contract 20-mi. road to W. H. Fox Constr. Co., Dortch Ave., Nashville, Tenn., $59,000. Noted May 3.

★Ala., **Birmingham**—City let contract paving various streets to H. M. Bowdry, Empire Bldg., $27,753.

★La., **Lake Charles**—County let contract 70,000-sq.yd. concrete roads to Chapin-Colgalizer Constr. Co., 427 Moore Bldg., San Antonio, Tex., Hecker Rd., dirt, F. P. Constant, Alexandria; graveling and shelling Vinton-Cameron Rd., E. L. Farmer, Lake Charles. Total cost, $150,000. Noted Apr. 26.

★O., **Cincinnati**—Bd. Control let contract paving portions Linwood and Delta Aves. to Kirchner Constr. Co., 221 West 9th St., $30,181.

★O., **Cleveland**—County let contract paving Ingersoll and East 54th Sts. to A. M. Pejsa Paving Co., 2370 East 93rd St., $50,230; Colt Rd. to McHugh Bros., $15,604. Noted Apr. 19.

★Ind., **Vincennes**—(Official)—County let contract 2 brick roads to S. R. Adams & Co., Princeton; 3 gravel roads to A. Hart, Sanborn; H. Peden, Sanborn, and W. L. Brocksmith, Freelandville. Noted Apr. 19.

★Mich., **Ontonagon**—(Official)—County let contract grading roads as follows: 6 mi. to Smith Sparks Constr. Co., Houghton; 8 mi. to W. S. Peters, Wakefield; 5 mi. to J. E. Nicholson, Marenisco; 6 mi. to Helli & Ceile, Ironwood; 11 mi. 9-in. macadam to Latrell Co., Seney.

Ill., **Chicago**—County received low bids paving 206,694-sq.yd., Main, Elk, Grove, Schaumburg, Hanover and Harrington Twps., from Commonwealth Improv. Co., 179 West Washington St., $446,508.

★Minn., **Virginia**—(Official)—City let contract paving 21 blocks and building cement sidewalks on 21 blocks to L. McCann, Eveleth; curb and gutters to Resberg-Marvick Co., Virginia; storm sewers to C. Christopherson, Virginia. Noted Apr. 26.

★Kan. **Lawrence**—City let contract paving Elm and Winona Sts., and portions Illinois and 13th Sts., to A. R. Young Constr. Co., Lawrence.

★S. D., **Spearfish**—(Official)—City let contract building crosswalks, sidewalks, culverts during year to S. Thompson, Spearfish, sidewalks 13c. per sq.ft., crosswalks 18c. and culverts $1 per ft. Noted Apr. 26.

★Mo., **Joplin**—City let contract paving portion Wall St. to Granite Bituminous Co., 409 Pierce Bldg., St. Louis, $1.85 per sq.yd.

★Ark., **Des Arc**—City let contract building 5½ mi. concrete sidewalks to P. F. Conley, Little Rock. Noted Apr. 26.

★Ark., **Forrest City**—County let contract 40-mi. road, Dist. No. 3, to Herring & Schellhous, Forrest City.

★Ark., **Little Rock**—Co. Rd. Improv. Dist. No. 15 let contract crushed stone to be used in building new district to Big Rock Stone & Constr. Co., 111 Center St., $240,000.

★Tex., **Corpus Christi**—Co. Comrs. let contract paving portion Timon Blvd., to W. L. Pearson & Co., 705 Stewart Bldg., Houston, $40,000.

★Tex., **Hereford**—(Official)—County let contract 14.3-mi. highways to Dyar & Tiefel. Noted Apr. 26.

★Utah, **Ogden**—City let contract paving streets in Dist. No. 125, to P. J. Moran, Inc., 504 Felt Bldg., Salt Lake City, $121,915. Noted May 10.

★Ariz., **Nogales**—County let contract rebuilding and repairing county road from Oro Blanco to Montano Mines Co., Nogales, Ariz., $17,000.

★Ariz., **Yuma**—(Official)—City let contract paving 32,000-sq.yd., bitulithic, to O. & C. Constr. Co., Yuma. About $84,000. Noted Apr. 26.

★Wash., **Olympia**—State Highway Comr. let contracts building highways as follows; 1-mi. Pacific Highway to Allred & James, Centralia, $10,728; 1-mi. Sunset Highway, Sloan Bros., Box 348, Seattle, $11,846; 1-mi. Inland Empire Highway, Asphalt Paving Co., Hutton Bldg., Spokane, $18,282; 33-mi. State Rd. No. 23, Bitumass Paving Co., Spokane, $17,484; 11-mi. Sunset Highway, Gallagher & Mead, Auburn, $16,494. Noted May 3.

★Wash., **Olympia**—Council let contract paving Sylvester and Water Sts. to Independent Asphalt Paving Co., Northern Bank and Trust Bldg., Seattle, $11,365. Noted May 4.

★Wash., **Pomeroy**—City let contract paving 13,800-sq.yd., 11,450 lin.ft. gutters, 5250-yd. excavation, drainage, conduits, etc., to Clifton Applegate Co., Hutton Bldg., Spokane, $35,236.

★Cal., **Oakland**—City let contract improving 85th and 86th Aves. to Hutchinson Co., 13th and Franklin Sts.

★Cal., **Sacramento**—City let contract paving 6.3-mi., highway No. 11, Galt-New Hope Rd., to A. Teichert & Son, Ochsner Bldg., $31,589.

★Que., **Quebec**—Rd. Comn. let contract asphaltic concrete pavement to Laganiere, Houde & Co., Grondins, $145,000.

★Ont., **London**—City let contract improving streets as follows: Foundations to W. J. Boss, 853 Maitland St.; asphalt to Imperial Oil Co., 56 Church St., Toronto; cement to Hayman & Milla, 280 Maitland St., and W. Copp, 93 York St. Total cost, $82,000.

★Ont., **Ottawa**—City let contract road oil to Imperial Oil Co., Cartharine St.; refined tar to Paterson Mfg. Co., 2021 St. Hubert St., Montreal.

★Ont., **Sarnia**—Dept. Pub. Wks. let contract concrete pavement to McRae & Capagne, Niagara Falls, N. Y., $25,600.

★Ont., **Toronto**—Bd. Control let contract paving Greenwood, Kingswood and Silverbirch Sts., asphalt, Kingswood St., asphaltic concrete, to Godson Contr. Co., Manning Chambers; Kingswood St., brick block, to Asphaltic Concrete Co., Excelsior Life Bldg.; concrete walks on Kingswood St. to Riverdale Concrete Paving Co., 264 Jones Ave.; concrete walks on Mitchell Ave. to R. C. Harris, comr. wks.

RAILWAYS, STEAM AND ELECTRIC
Proposed Work

New York—Catskill Mountain Ry., recently incorporated with $100,000 capital stock, will build narrow-gage surface railway to be operated either by steam, gasoline or electricity. T. E. Jones, Catskill, gen. supt., freight and pur. agt.

New Jersey—Eastern Transit Line, Inc., Weehawken, incorporated with $350,000 capital stock, will construct and operate general passenger, freight and transportation line in New Jersey. L. H. Smith, 911 Blvd., Weehawken, vice pres.

North Dakota—Great Northern Ry. will double track main line from Minot, N. D., to Mountain Division west of Cut Bank, Mont., to relieve congestion and divisional trouble. A. H. Hogeland, 4th and Jackson Sts., St. Paul, ch. engr.

Montana—Billings Railway, Light & Power Co., Billings, will construct street railway system. About $150,000. J. B. Arnold, secy.

Montana—Great Northern Ry. plans extending branch line from Stanford to iron deposits on Running Wolf Mine in Belt Mountains. A. H. Hogeland, 4th and Jackson Sts., Chicago, ch. engr.

Texas—Kansas City, Mexico & Orient R.R., (company under new management), will soon begin construction on proposed line from San Angelo to Del Rio, where it will connect with transcontinental line of Southern Pacific Ry.; about 120 mi. G. S. Everitt, Wichita, Kan., supt.

Texas—Standard Utilities Constr. Co. making surveys interurban line, via Denison, Denton, Slidell and Dallas. A. V. Demayo, New York, vice pres. and gen. mgr. Noted May 3.

Texas—Texas Electric Light & Power Co., recently organized with $200,000 capital stock, plans street railway in San Angelo and interurban line to Ballinger, 30 mi. C. W. Hobbs, San Angelo, pres.

California—G. L. Hardison, Rialto Bldg., San Francisco, reported interested in project to build railway from point near Hopland to Lakeport, about 24 mi., for which $200,000 has been subscribed.

California—Amargosa Valley R.R., recently incorporated with $250,000 capital stock by T. C. Job, 1100 Garland Bldg., L. M. Farnham, 913 East 20th St., E. E. Sweeney, 642 Juanita Ave., and associates, all of Los Angeles, will construct 16.21-mi. railway through "Salt Basin," San Bernardino Co., from point on Tonopah & Tidewater R.R., 69 mi. north of Ludlow and extending to plant of Avawatz Salt & Gypsum Co., 1112 Garland Bldg., Los Angeles, on north slope of Avawatz Mountains.

California—Pacific Electric Ry. plans extension from Glendora to San Dimas. J. McMillan, Pacific Electric Bldg., Los Angeles, gen. mkr.

California—Western Pacific R.R. acquired part of line of Nevada-California-Oregon Ry. and will take up track from Hackstaff Crossing (Amedee P. O.) to Plumas Junction, 30 mi., and from Plumas Junction to Davies (Boca P. O.), 40 mi.; also standard gage line will be constructed from Chilcoot near Plumas Junction to Reno, Nev., part of which will be on old roadbed. T. J. Wyche, Mills Bldg., San Francisco, ch. engr.

Ontario—City Council, St. Thomas, plans to extend street railway. About $40,000. M. Ferguson, engr.

Ontario—Dominion Railway Bd. approved plans of Canadian Pacific Ry. for double tracking line from North Toronto to Leaside, including 2 bridges over ravines, the one over Summerhill Ave. ravine to be a double-deck bridge. A. Purvis, Toronto, gen. supt., Ontario Dist.

Prices and Contracts Awarded
(★Indicates award of contract)

★**Pennsylvania**—Southern Pennsylvania Traction Co., let contract double-tracking Chester-Darby line on Chester Pike to Brubaker Paving Co., Huntington, W. Va. Noted Apr. 19.

★**Washington**—Chicago, Milwaukee & St. Paul Ry. will electrify 200 mi. road from Othello toward Seattle and Tacoma, by company's forces. C. F. Loweth, Railway Exchange Bldg., Chicago, ch. engr.

EXCAVATION AND DREDGING
Proposed Work

N. Y., New Rochelle—Dredging—City plans to dredge Echo Bay and make improvements in inner harbor to afford entrance to new city docks. J. A. Hadert, city engr.

Miss., Greenville—Drainage—Black Bayou D.D. soon lets contract draining about 100,000 acres in Washington Co. Morgan Engr. Co., engrs., Goodwin Institute Bldg., Memphis, made surveys.

Tenn., Alamo—Drainage—Ferree & McClesky, 11 South 2nd St., Memphis, completed preliminary surveys for Middle Forked Deer D.D., Crockett Co., for which $50,000 bonds will be issued.

O., Marion—Dredging—Marion and Delaware Cos. plan to dredge, deepen and widen Scioto River to drain land in Claiborne, Jackson and York Twps.

Ind., Bluffton—Ditch—County estimates cost of J. S. DeLong Drain, tiling Bill's Creek and construction of prongs south of Bluffton at $36,084.

Ind., Rochester—Ditch—County soon receives bids Eddy Creek Ditch. About $98,000.

Ia., Council Bluffs—Dredging—E. E. Spetman, city engr., submitted report advising city of dredging Indian Creek from 19th St. to Missouri River. Bids for work will soon be received.

Ia., Ft. Dodge—(Official)—Drain—County rejected bids Drain No. 250. J. L. Hanrahan, Ft. Dodge, co. aud. Noted May 3.

Minn., Jackson—Ditch—County rejected bids Judicial Ditch No. 45. P. D. McKellar, co. aud.

Minn., Montevideo—Ditches—County plans to sell $40,000 bonds to construct Ditches Nos. 21, 23, 27 and 33. J. J. Stennes, co. aud.

Tex., Beaumont—Channel, etc.—City plans to issue $300,000 bonds to improve Beaumont deep water channel and harbor. C. L. Scherer, city engr.

Ore., Portland—Drainage—Berry & Cunningham, engrs., Spaulding Bldg., will receive bids about June 10 for draining 4400 acres land for Wahkiakum D. D. No. 2, near Cathlamet, including 20 mi. dykes, installing tidegates and pumping plants.

Cal., El Centro—Irrigation—Imperial Irrigation Dist. will hold election May 26 to vote on $2,500,000 bonds to improve system. C. K. Clarke, ch. engr.

Cal., Littlerock—Irrigation—See "Reinforced Concrete."

Cal., Placerville—Irrigation—Western States Gas and Electric Co. of California having surveys and application made to State Railroad Comn. for permission to irrigate land in Eldorado Co. by driving tunnel at Echo Lake to draw level of lake 40 ft. below natural outlet; tunnel to be 5 x 6½ ft. in cross-section and 2600 ft. long; total outfall to be utilized is 600 ft. from dam to waterwheel nozzle, water to be returned to south fork of American River after use. Appropriation will be 20,000 acre-ft. from Medley and Echo Lakes in Eldorado Co., and Twin Lakes in Alpine Co. to develop 2500 hp. at plant of American River Electric Co. for 7 months. S. Kahn, Stockton, vice pres., treas. and gen. mgr.

Cal., Sacramento—Canal—Preliminary surveys completed for ship-canal from Sacramento to Suisun Bay, 37.62 mi.; width on bottom, 100 ft. About $1,000,000.

Cal., San Andreas—Irrigation—See "Reinforced Concrete."

Cal., San Bernardino—Irrigation—F. M. Walton, 1326 Las Palmas Ave., Los Angeles, and associates applied to Bd. Superv. for permission to form Victor Valley Irrigation Dist., comprising about

Excavation and Dredging (Continued)

100,000 acres along Mohave River, to take over Arrowhead Reservoir and Power Co.'s Little Bear Valley dam and construct irrigation system. About $6,000,000. J. B. Lippincott, Central Bldg., Los Angeles, engr.

Bids Desired

N. Y., Brooklyn—Ditch—Until May 24 by L. H. Pounds, boro. pres., temporary storm relief drainage ditch in right-of-way owned by city in former Paerdegat Ave. N., and former Paerdegat Basin from East 51st to Bedford Creek.

La., Youngsville—Drainage—Until May 29 by Comrs. Youngsville D. D., dredging and draining canals, about 62 mi., also removal of about 500,000 cu.yd. earth. Bonds for $60,000 have been sold. B. F. Flanders, Youngsville, chn.

Tenn., Brownsville—Drainage—Until May 30 by Mud Creek D. D., Hayward Co., involving 50 acres clearing for right-of-way, 88,469 cu.yd. excavation. J. Tipton, F. P. Hess and C. Lomax, dirs.

Ky., Paducah—Excavation—See "Streets and Roads."

Ind., Peru—(Official)—Ditch—Until May 26 by C. E. Dice, co. surv., for Philip Miller Ditch, Deer Creek Twp., main ditch, 2742 ft. long and branch ditch No. 1, 542 ft. long, requiring about 3300 ft. tile various sizes. C. Rose, constr. comr.

Ill., Rushville—(Official)—Pumping Plant—Until June 1 by Comrs. Kelly Lake Drainage and Levee Dist.; advertised in this issue.

Ill., Watseka—Drainage—Until May 19 by Comrs. Pond Lily D. D. No. 1, Iroquois Co., for open ditches and tile drains requiring about 146,620 ft. excavation.

Ia., Algona—(Official)—Drainage—Until June 12 by Bd. Supervs. for tile work for D.D. No. 133 (readvertised). Noted May 3.

Ia., Charles City—Drainage—Until May 22 by County for D. D. No. 3, involving 13 rein.-con headwalls, 57 surface water intakes, 110,370 cu.yd. excavation; 3500 ft. 36-in., 5500 ft. 34-in., 1800 ft. 32-in., 900 ft. 30-in., 1000 ft. 22-in., 8000 ft. 20-in., 11,628 ft. 18-in., 2500 ft. 16-in., 5200 ft. 15-in., 4900 ft. 14-in., 15,848 ft. 10-in. and 23,803 ft. 8 in. tile; 6726 ft. 6- to 35-in. tile connections. C. R. Jones, co. aud.

Ia., Ft. Dodge—Drainage—Until May 25 by Bd. Supervs., Boone and Webster Cos., for Boone-Webster Joint Drain No. 2-222, involving 66,141 cu.yd. open ditch and 31,956 ft. tile. J. L. Hanrahan, Ft. Dodge, aud. Webster Co.

Ia., Jefferson—Drainage—Until May 23 by Bd. Supervs., Greene and Webster Cos., Jefferson, for about 158,000 ft. tile of various sizes for Joint Drain No. 110 in Green Co. and No. 221 in Webster Co. B. S. McCully, Jefferson, co. aud.

Minn., Luverne—Ditch—Until May 26 by O. Skyberg, co. aud., for Judicial Ditch No. 3, requiring 2480 cu.yd. open work and furnishing and laying 43,000 ft. tile, various sizes. About $19,773.

Minn., Stillwater — (Official) — Ditch — Until May 26 by N. A. Nelson, co. aud., for Judicial Ditch No. 1. About $14,000. Noted May 3.

Kan., Scandia—(Official) — Drainage — Until June 1 by L. N. Hendrix for D.D. No. 1, involving cleaning and straightening channel and bed of Mud Creek; enlarging and strengthening main levee and construction of riprap along south and west bank of Republican River. Noted Apr. 26.

Neb., Fremont—(Official)—Ditch—Until June 5 by W. E. Barz, co. clk., Blomendahl Ditch, involving 50,079 cu.yd. excavating, at 15c., no clearing; 23 89 cu.yd. excavating at 25c., or stone; digging will begin at Hooper, on Chicago & Northwestern R.R. W. M. Sanders, co. engr. Noted Apr. 19.

S. D., Madison—(Official)—Ditch—Until June 7 by Comrs. Lake and Moody Cos.; advertised in this issue. Noted Jan. 25.

Mo., Cape Girardeau—(Official)—Bank Protection Work—Until June 1 by Bd. Supervs. Little River D.D., 410 Himmelberger-Harrison Bldg., under Contracts., 30-A, 30-C, 30-D and 30-E; advertised in this issue.

Ark., Jonesboro—Excavation—See "Streets and Roads."

Ark., Lonoke—(Official)—Drainage Work—Until June 14 by T. M. Fletcher, chn. comrs., Bayou Meto D.D. No. 1; advertised in this issue.

Prices and Contracts Awarded

(★Indicates award of contract)

★Del., Wilmington — (Official) — Dredging — County let contract dredging near Port Penn and Augustine Piers, St. Georges, to Delaware Dredging Co., Real Estate Trust Bldg., Phila.

★Ind., LaFayette—Drainage—County let contract drainage work to J. Parlow, LaFayette.

★Mich., Dowagiac—Drainage—Drainage Comrs. let contracts Dowagiac River Drain as follows: I. F. Elheney, Bangor, 4080 rods at $9 65 per rod; J. Athey, Decatur, 1 mi. at $7 per rod; E. Kinney, Decatur, 1 mi. at $5 per rod. Total cost, $66,732.

★Ill., Des Plaines—Drainage—County let contract 16,800 ft. 4-in. to 12-in. tile to J. Cashin, Ramsey.

★Ill., Quincy—(Official)—Pumping Plant—Indian Grave D. D. let contract drainage pumping plant, consisting of 1 brick building on concrete foundation (with residence in second story), to B. Layton, Muscatine, Ia., cost, plus %. Bidder was also low on electric and oil-driven motors, price being $79,700 and $109,000 respectively. Noted Apr. 5.

★Ia., Algona — (Official) — Drainage — Bd. Supervs. let contract open work for D.D. No. 133 to Thomas & Sweet, Bancroft, 6.98c. per cu.yd. Noted May 3.

★Ia., Carroll—Drainage—County let contract D. D. No. 82 to Cement Products Co., Turin.

★Ia., Marion—Drainage—County let contract D. D. No. 1 to Hawkeye Constr. Co., Webster City.

★Minn., Ivanhoe—(Official)—Ditch—County let contract Judicial Ditch No. 30 to Kohler Constr. Co., Frazee, open work, $25,559; V. Larson, Lake Benton, tile, $18,300. Noted Apr. 26.

★Minn., Jackson—County let contract Judicial Ditch No. 64 to L. Hanson, Lakefield, $29,000.

★Minn., Jackson—Ditch—County let contract Judicial Ditch No. 66 to H. Dean, Alpha, $10,700.

★Ark., Jonesboro—Ditches—Bd. Comrs., D.D. No. 14, let contract 10 mi. ditches to C. W. Becker, Malden, Mo., $19,800.

★Tex., Pecos—Irrigation—Reeves County Irrigation Dist. let contract irrigation works to A. D. Jamison.

★Wash., Pomeroy—Excavation—See "Streets and Roads."

★Cal., Paradise—Canal, Etc.—(Official)— Bd. Dir., Paradise Irrigation Dist. let contract canal and wood pipe system to W. A. Kraner, 1035 Bush St., San Francisco, $147,476. Dist. will build dam on cost plus 10% at cost of about $85,000. Noted Apr. 19.

INDUSTRIAL WORKS

Proposed Work

Mass., Malden—Eastern Smelting & Refining Co. prepared plans plant. About $100,000.

R. I., Pawtucket—C. S. Skinner Co. plans 4-story, 125 x 250-ft. plant. About $100,000.

Conn., Bridgeport—C. D. Davis, 309 Washington Ave., plans 5-story, 60 x 124-ft. plant. About $200,000.

N. Y., Jamaica—Armour & Co., Union Stock Yards, Chicago, prepared plans 3-story brick warehouse on Rockton St. About $90,000.

N. Y., New York—T. Monahan is having plans prepared by G. M. McCabe, archt., 96 5th Ave., 4-story garage on Marginal St. About $250,000.

Pa., Allentown—Allentown Standard Mfg. Co. plans plant to manufacture copper, tin and metal tubes. About $75,000.

Pa., Phila.—Curtis Publishing Co., 6th and Walnut St., has had plans prepared by A. W. Brunner, archt., 101 Park Ave., New York for 10-story, 260 x 386-ft. publishing house.

Pa., Phila.—De Long Hook and Eye Co., Broad and Wallace Sts., plans addition. About $200,000.

Pa., Phila.—General Scientific Equipment Co., 2951 North 27th St., has had plans prepared by A. Alcantarn, archt., 2962 North Bailey Bldg., for 3-story, 110 x 124-ft. machine shop.

Pa., Pottstown—Steel Plate Products Co. plans plant in western section of city. About $50,000.

Pa., York—American Chain Co., Inc., 358 North George St., will construct brick addition to form an "L," facing Edgar and Prospect St.

Md., Baltimore—Baltimore Dry Dock and Shipbuilding Co., 1720 Thames St., plans addition to plant. About $3,000,000.

Md., Baltimore—Seaboard Packing Co. soon lets contract 4-story, 110 x 164-ft. plant. C. B. Comstock, 110 West 40th St., New York archt.

Va., Lynchburg—Jobbers Overall Mfg. Co., 1701 12th St., plans 2-story, 63 x 183-ft. factory with 60 x 63-ft. wing. About $50,000. Heard, Cardwell & Craighead, archts, Peoples Natl. Bank Bldg., receives bids in about 30 days.

W. Va., Bridgeport—Bridgeport Window Glass Co., Goff Bldg., Clarksburg, having plans prepared for 3 factory buildings, 1-story, 144 x 275-ft., 125 x 175-ft. and 60 x 200-ft. About $85,000. A. L. Talbot, mgr.

Ala., Mobile—Barrett Shipbuilding Co. plans plant. About $300,000. G. S. Leatherbury, pres.

Miss., Jackson—R. H. Green plans grain elevator, cold-storage plant and feed mill. About $50,000.

Ky., Paducah—See "Buildings."

O., Cincinnati—Crown Overall Co., 3rd and Plum St., plans, 4-story, 182 x 185-ft. factory. About $200,000. Zettal & Rapp, archts., Johnson Bldg., soon receives bids. W. G. Franz, Union Trust Bldg., engr.

O., Cincinnati—Laidlaw Works of Worthington Pump and Machinery Corp. is having plans prepared for a 2-story pattern shop. About $55,000. B. Baldwin, 73 Perin Bldg., archt.

O., Columbus—Columbus Climax Rubber Co., Citizens Bank Bldg. (temporary office), recently incorporated with $200,000 capital stock, plans several factory buildings. I. S. Hoffman, pres.

O., Elmwood Place—Laidlaw Works of Worthington Pump & Machinery Corp., 1504 1st Natl. Bank Bldg., Cincinnati, has had plans prepared by B. Baldwin, archt. and engr., 73 Perin Bldg., Cincinnati, for 2-story, pattern shop. About $55,000.

O., Portsmouth—Portsmouth Refactories Co. plans factory. About $75,000. B. H. Hitchcock, mgr.

Mich., Detroit—Flander Co., 223 Hammond Bldg., had plans prepared by Stahl & Kinsey, archts., 117 West Fort St., for manufacturing plant including 2-story, 90 x 500-ft. plant with 4 wings, 3-story, 75 x 90-ft., and other three to be 2-story, 75 x 90-ft.

Ill., Chicago—International Airship Corp., 36 South State St., plans 1- and 2-story, 100 x 600-ft. factory and office, Miller St. and Indiana Ave. W. H. Pruyn, Jr., 122 South Michigan Ave., soon receives bids.

Ill., Chicago—Melba Mfg. Co., 4237 Indiana Ave., plans 3-story addition to factory, also new power house. R. C. Pierce, archt., 10 South La Salle St., soon receives bids.

Ill., Chicago—Old Reliable Motor Truck Co., 3921 South Michigan Ave., will construct 2-story 100 x 160-ft. addition. About $90,000.

Ill., Chicago—Wahl Adding Machine Co., 232 East Ohio St., plans 3-story, 124 x 168-ft. factory. About $95,000. S. C. Roberts, pres.

Wis., Milwaukee—Evinrude Motor Co., 279 Walker St., receiving bids about June 1 for 300 x 300-ft. main shop and 80 x 200-ft. foundry 27th and Lake Sts., North Milwaukee. About $250,000. P. M. Tallon, secy. Federal Engr. Co., Stephenson Bldg., engr.

Wis., Milwaukee—R. Gunz Co., Muskego Ave., plans factory at Muskego Ave. and Canal St. About $50,000.

Wis., Milwaukee—See "Reinforced Concrete."

Ia., Sioux City—Sioux City Service Co. plans improvements, including power plant and sub-power stations. About $750,000. E. L. Kirk, 3rd and Water Sts., gen. mgr.

Tex., San Antonio—See "Reinforced Concrete."

Colo., Denver—Linde Air Products Co., 42nd St., Bldg., New York, purchased site at South Broadway and Exposition Sts., and plans factory. About $100,000.

Wash., Seattle—Pacific Oil Mills Co., 1816 4th St., leased 7-acre tract of land from Comrs. on which to construct factory building to cost about $250,000. County will also build dock on site to lease to company. H. Meyer, 534 1st Ave., S., secy. and genl. mgr.

Cal., Orange—Santiago Orange Growers Assn. had plans prepared for 143 x 170-ft. precooling and packing plant, West Palm St. About $125,000.

Cal., Torrance—Pacific Electric Co. plans new shops. About $1,138,000. J. McMillan, Pacific Electric Bldg., Los Angeles, gen. mgr.

Bids Desired

N. Y., Central Islip—(Official)—Laundry—Until May 25 by State Hospital Comn., Capitol, Albany, extension to laundry and equipment at Central Islip State Hospital; advertised in this issue.

Prices and Contracts Awarded

(★Indicates award of contract)

★N. H., Somersworth—Great Falls Mfg. Co., 804 Exchange Bldg., Boston, let contract 3-story, 50 x 150-ft. addition to bleachery to Clark & Lee Co., 201 Devonshire St., Boston.

★Mass., Gardner—Central Oil & Gas Co., 205 School St., let contract 3-story plant to J. O. Safford & Co., Inc., 9 Doane St., Boston. Noted Apr. 19.

★Mass., New Bedford—Penrod Mills let contract mill to F. H. Smith, 120 Bway, New York City.

★Mass., New Bedford—Taunton—New Bedford Copper Co., North Front St., let contract machine shop and rolling mill to J. W. Bishop & Co., 109 Foster St., Worcester, $200,000. Noted Apr. 26.

★N. Y., Brooklyn—Cronk Works of Natl. Lead Co., 135 Marshall St., let contract Factory No. 3 to W. Kennedy Constr. Co., 215 Montague St., $90,000. Noted May 10.

★N. Y., Brooklyn—New York Municipal R.R., 85 Clinton St., let contract electric sub-station to A. Pasquini, 30 East 42nd St., New York, $50,000.

★N. Y., Buffalo—New York Central R.R. let contract 2 engine houses to J. W. Cowper Co., Inc., Fidelity Bldg., $300,000.

★N. Y., New York—City let contract elevator storehouse on Blackwell's Island to A. Winternitz, 103 Park Ave., $390,864.

★N. Y., Schenectady—General Electric Co. let contract foundry to S. Austin & Sons Co., 14,230 Euclid Ave., Cleveland, $400,000.

★N. J., Camden—J. Campbell Soup Co. let contract factory to Barclay & White Co., 1713 Sansome St., Phila., $75,000. Noted Apr. 12.

★N. J., Newark—Pittsburgh Plate Glass Co., Pittsburgh, let contract 1-story branch plant, Elizabeth Ave. and Peddie St., to Levering & Garrigues Co., 552 West 23d St., New York, $60,000.

Industrial Works (Continued)

★**N. J., Plainfield**—Pond Machine Tool Co. of Niles-Bement-Pond Co., let contract addition to H E. Baton, 12th and Sansom St., Phila., $150,000.

★**Pa., Phila.**—F. Weber & Co., 1125 Chestnut St., let contract factory to Evans Constr. Co., 9 South 18th St., $50,000. Noted Apr. 19.

★**Pa., Scranton**—Reiling & Schoen, Petersburg Silk Mill, 1000 James St., let contract addition to L. Stipp, Union Bank Bldg., Providence, $60,000.

★**W. Va., South Charleston**—See "Reinforced Concrete."

★**Ga., Tifton**—Tifton Packing Co. let contract plant to R. V. Labarre, Bisbee Bldg., Jacksonville, $160,000.

★**Ky., Louisville**—Standard Oil Co., 424 West Bloom St., let contract oil refinery to Fruin Colnon Constr. Co., LaClede Bldg., St, Louis, $1,000,000.

★**Ind., Indianapolis**—See "Reinforced Concrete."

★**Mich., Detroit**—See "Reinforced Concrete."

★**Mich., Sandusky**—Borden Condensed Milk Co. let contract plant to Covel Constr. Co., Ionia, about $70,000.

★**Ill., Chicago**—R. R. Donnelley & Sons Co., 731 Plymouth Ct., let contract printing plant, 2113-37 Calumet Ave., to Leonard Constr. Co., 332 South Michigan St., $200,000.

★**Ill., Chicago**—W. D. Gibson & Co., Huron and Kingsbury Sts., let contract rein.-con. and stone addition to C. Rathmussen, 154 West Randolph St., $150,000.

★**Wis., Milwaukee**—See "Reinforced Concrete."

★**Wis., Racine**—Hamilton & Beach Co. let contract addition, brick, to A. H. Harens, 822 14th St.

★**Wis., Sheboygan**—American Chair Co. let contract addition to factory to C. Zelle & Sons, $60,000.

★**Neb., Omaha**—See "Reinforced Concrete."

★**Ont., Peterborough**—Quaker Oats Co., Ry. Exchange Bldg., Chicago, let contract new plant to Canadian Leonard Constr. Co., Barrie Bldg., about $500,000.

★**Ont., Toronto**—H. Rotenberg, 77 Spadina Rd., let contract warehouse to Raymond Constr. Co., Lumsden Bldg., about $60,000.

BUILDINGS

Proposed Work

N. H., Durham—Dormitory, etc.—(Official)—Trustees New Hampshire College, will receive bids about June 1 for brick dormitory and commons building. About $100,000. E. T. Huddleston, Dept. Drawing, c/o college, archt. Noted May 3.

Mass., Cambridge—Theatre, Store and Office—Olympia Theatre Co., 3 Tremont Row, Boston, plans 3-story. About $400,000. W. L. Mowll, archt., 185 Devonshire St., Boston, preparing plans.

Mass., Lexington—High School—Bd. Educ. plans. About $175,000. S. Swan, town clk. W. Brown, archt., 45 Milk St., Boston, preparing plans.

Mass., Lynn—Hospital—Hospital Corp. had plans prepared by C. V. Burgess, archt., Security Trust Bldg., 3-story, brick. About $80,000.

Mass., Norwood—School—Bd. Educ. plans, 3-story, 97 x 210-ft., 88 x 92-ft. and 92 x 136-ft. G. H. Smith, chm. com. J. H. Aitchie, archt., 8 Beacon St., Boston, preparing plans.

Mass., Pittsfield—Lodge and Office—L. G. Lloyd, 395 North St., soon lets contract, 2-story, 60 x 100-ft. About $50,000. P. F. McLaughlin, 24 North St., archt.

Conn., Waterbury—High School—Bd. Educ. soon receives bids, 3-story, 200 x 200-ft , brick and steel, Gorve and Pine Sts. L. A. Walsh, archt., prepared plans.

N. Y., Brooklyn—Theatre—J. H. Ward, c/o A. G. Carlson, archt., 226 Henry St., having plans prepared, 1-story. About $50,000.

N. Y., Buffalo—School—Dept. Pub. Wks. soon lets contract P. S. No. 63, 2½-story, 105 x 170-ft. brick, stone and steel. About $180,000. H. Beck, city archt.

N. Y., New York—School—Manhattan Trade School for Girls, 209 East 23rd St., has plans prepared by C. B. J. Snyder, archt., for 10-story, brick, limestone and terra cotta school, Lexington Ave. and 22nd St.

N. J., Florence—Church—Florence Baptist Congregation plans, about $50,000.

N. J., Harrison—School—Bd. Educ. plans, about $250,000.

N. J., Princeton—School—Bd. Educ. plans, 2-story. About $50,000. J. N. Anderson, Cedar Grove, principal. R. Schiman, archt., 932 Lambert St., Trenton, preparing plans.

Pa., Clarks Summit—(Official)—Almshouse—Scranton Poor Dist., 624 Connell Bldg., Scranton, receives bids in about 6 weeks, 2-story addition. About $400,000. D. H. Morgan, Connell Bldg., Scranton, archt. Noted May 3.

Pa., Easton—**High School**—**Easton School Bd.** considering plans for addition to high school. About $300,000.

Pa., McKees Rocks—Schools—Bd. Educ. plans 2 grade schools. About $150,000. A. B. Rath, pres. J. H. Phillips, archt., 604 Chartiers St., preparing plans.

Pa., Phila.—(Official)—Club—F. E. Hahn, archt., 1112-1114 Chestnut St., receiving bids about June 20, for American Federation of Musicians, Local No. 77, 10 South 18th St. About $75,000. Noted May 3.

Pa., Shamokin—(Official)—Theater—W. H. Lee, archt., Dime Bank Bldg., receiving bids about June 1 for 1-story, 75 x 125-ft. for Chamberlain Amusement Co., 14-16 West Independence St. About $90,000. Noted May 3.

Md., Baltimore—(Official)—School, Assembly Hall and Gymnasium—Smith & May, archts., 1133 Calvert Bldg., will receive bids in about 2 weeks for Park School. About $75,000. Noted May 3.

Wash., D. C.—Bank—Home Savings Bank receiving bids about June 1, 6-story, 35 x 70-ft. Cost, $100,000. C. Waggman, 1211 Conn. Ave., archt.

W. Va., Parkersburg—School—City election in fall to vote on $175,000 bonds to build school. G. Heaton, clk. F. L. Packard, 1212 New Hayden Bldg., Columbus, archt.

Ky., Lexington—Church—Broadway Christian Congregation will rebuild. About $125,000.

Ky., Paducah—Depot, etc.—Illinois Central R.R. plans depot and will improve shops. About $100,000. A. S. Baldwin, 135 East 11th Pl., Chicago, ch. engr.

O., Cuyahoga Falls—High School—City voted $50,000 bonds to build addition to high school. Noted May 10.

O., Dayton—Auditorium—Dayton Pythian Castle, South Main St., soon receives bids addition to auditorium. About $175,000. Pretzinger & Mussellman, archts., Reibold Bldg., completed plans.

O., McCutchenville—High School—Bd. Educ. soon receives bids 2-story, 100 x 130-ft. About $75,000. J. L. Bare, clk. Pretzinger & Musselman, 1126 Reibold Bldg., Dayton, archts.

O., Massillon—Nurses' Home—Massillon City Hospital plans, 3-story, 33 x 87-ft. About $50,000. E. Heerman, archt., 405 Martin Bldg., Canton, soon receives bids.

O., Massillon—Bank—Union Natl. Bank, 75 Erie St., plans 1- and 2-story. About $65,000. J. H. Hunt, pres. C. Wilhelm, archt., Albright Bldg., Massillon, soon receives bids.

O., Youngstown—Office—Brier Hill Steel Co., Stambaugh Bldg., having plans prepared by J. L. Decker, archt., Stambaugh Bldg., 4-story, brick, West Federal St. About $250,000. Noted May 3.

Ind., Cambridge City—High School—Bd. School Trustees and C. O Williams, co supt., selected site for high school. About $75,000.

Ind., East Chicago—High School—East Chicago High School soon receives bids 3-story, 71½ x 176½-ft. About $100,000. J. T. Hutton & Son, Hammond Bldg., Hammond, archts.

Ind., Ft. Wayne—Auditorium—City plans, on Lewis and Clinton St. About $225,000. C. Weatherhogg, archt., Hamilton Natl. Bank Bldg., preparing plans.

Ind., Ft. Wayne—Y. M. C. A. plans 7-story, 150 x 150-ft. building. About $300,000. A. H. Perfect, Lincoln Life Bldg., pres. Shattuck & Hussey, 19 South La Salle St., Chicago, archts.

Ind., Richmond—High School—Bd. Educ. had plans prepared by R. P. Daggett & Co., archts., 956 Lemke Annex, Indianapolis, for a 2-story addition. About $150,000.

Ind., South Bend—Hotel—Marquette Hotel Co. plans, 12-story, 66 x 165-ft. About $375,000. Dibelka, Flaks & Minchin, archts., 130 North 5th Ave., Chicago, prepared plans.

Ill., Aledo—Bank and Office—Mercer County Banking Assn. soon lets contract, 3-story, 50 x 100-ft. About $75,000. J. Knittel Co., archts.

Ill., Chicago—Theatre—E. Browarsky soon lets contract, 3-story, 157 x 266-ft. About $300,000. H. L. Newhouse, 4630 Prairie Ave., archt.

Ill., Kewanee—Hospital—Kewanee Public Hospital Assn., c/o W. F. Jones, 309 Tremont St., had plans prepared by J. G. Beadle, archt., Galesburg, 2-story. About $50,000.

Ill., Maywood—Temple—Maywood Temple Assn. had plans prepared by E. E. Roberts, archt., for temple at 5th Ave. and South 2nd St. About $80,000.

Ia., Ames—Armory—Finance Com. of State Bd. Educ. made surveys for armory for Iowa State College. About $125,000.

Ia., College Springs—Schools—Consolidated Dist. having plans prepared by Trunk & Gordon, archts., Donnell Ct., St. Joseph, Mo., 2-story, 73 x 143-ft., brick, stone and rein.-con. high and grade school. About $65,000.

Ia., Columbus Junction—School—City will vote on May 28 on $90,000 bonds to build schools.

Ia., Corwith—School—Bd. Educ. plans, 2-story. Cost, $80,000 to $90,000. W. C. Olke, secy. Proudfoot, Bird & Rawson, archts., 810 Hubbell Bldg., Des Moines, prepared plans. Noted May 3.

Ia., Iowa City—Armory—Bd. Educ. having plans prepared by Proudfoot, Bird & Rawson, archts., 810 Hubbell Bldg., Des Moines. About $125,000.

Ia., Mason City—(Official)—School—City voted $100,000 bonds to build schools. R. L. James, secy, School Bd. Noted May 3.

La., New Orleans—Court House—Winn Parish had plans prepared by W. L. Stevens, archt., Liverpool, London & Globe Annex. Cost, $75,000.

Ia., Shenandoah—High and Grade School—Bd. Educ. having plans prepared by Trunck & Gordon, archts., Donnell Court Bldg., St. Joseph, Mo., 2-story, 99 x 150-ft. brick and stone. About $115,000.

Minn., Lakefield—High School—Bd. Educ. School Dist. No. 3, receiving bids about May 25, 2-story, 120 x 120-ft. About $75,000. H. A Hayden, clk. K. T. Snyder, 1133 Plymouth Bldg., Minneapolis, archt.

Minn., Minneapolis—Clubhouse—Gymal Doled Club, 11 Western Ave., plans. About $75,000. S. Gottlieb, 1027 James Ave., N., pres.

Minn., Rochester—Schools—Bd. Educ. plans election to vote on $128,000 bonds to build schools. E. Bratager, clk.

Minn., Warroad—City voted $50,000 bonds to build schools. T. L. Jones, clk.

Kan., Augusta—High School—City voted $50,000 bonds for new high school.

Kan., Wichita—Hotel—Travelers Hotel Bldg. Co., plans 12-story, brick, terra cotta and rein.-con. About $500,000. H. L. Lassen, 345 Belmont Ave., pres. Richards, McCarty & Bulford, Columbus, O., archts.

Neb., Columbus—Hospital—Sisters of St. Francis had plans prepared for addition to St. Mary's Hospital. About $50,000.

Neb., Lincoln—Hotel—Crown Hotel Co., c/o F. D. Eager, Majestic Theater Bldg., 15th and O Sts., is having plans prepared by J. W. Salmon, archt., Orpheum Theater Bldg , 12-story.

Neb., Lincoln—Bank and Office—Nebraska Central Bldg. and Loan Assn is having plans prepared by Fiske & Meginnis, archts., 529 Bankers' Life Bldg., for addition. About $120,000.

Neb., Omaha—Theater and Store—A. H. Blank, Des Moines, plans, 12-story, 132 x 132-ft. Cost, $250,000.

Neb., Omaha—Home—Alpha Camp, No. 1, Woodmen of the World, plans. About $50,000.

Neb., Scottsbluff—School—Bd. Educ. has had plans prepared by Berlinghoff & Davis, archts., 416 Security Mutual Life Bldg., Lincoln, 2-story, 90 x 120-ft. About $100,000. J. F. Kennedy, secy.

N. D., Lamoure—High School—Bd. Educ. having plans prepared by W. H. Kurke, archt., Fargo. About $60,000.

Mont., Butte—See "Reinforced Concrete."

Mont., Deer Lodge—High School—City rejected bids as too high. About $60,000 available for work. Noted Apr. 12.

Mont., Lewiston—High School—County voted $90,000 bonds to build high school.

Mo., Joplin—Y. M. C. A. plans building. About $250,000.

Mo., Kansas City—Armory—City plans election to vote on $300,000 bonds to build armory. C. B. Trimmer, clk.

Mo., Kansas City—Schools—Bd. Educ. plans election June 2 to vote on $2,000,000 bonds to improve schools.

Mo., Maryville—School—Bd. Educ. soon lets contract, 3-story. About $55,000. Eckel & Aldrich, 1102 Corby Forsee Bldg., St. Joseph, archts.

Mo., St. Joseph—Hotel—J. Gieger, M. D., plans 8-story addition. About $100,000. W. Boschess, archt., Tootle-Lemon Bank Bldg., preparing plans.

Mo., St. Louis—Theatre and Office—L. Cella, 705 Olive St., soon lets contract 80 x 160-ft. addition. About $130,000. C. H. Deitering, 705 Olive St., archt.

Mo., St. Louis—Bank—American Trust Co., Bway. and Locust St., plans at 714-18 Locust St., 3-story. About $225,000.

Ark., Ft. Smith—Church—Methodist Episcopal Congregation having plans prepared by J. Gaisford, archt., Goodwin Institute Bldg., Memphis, Tenn. G. W. Green, chn. bldg. com.

Tex., Calvert—School—School Dist. voted $60,000 bonds to build schools.

Tex., Dallas—Office—Southern Life Insurance Co., having plans prepared by Long & Witchell, archts., Southwest Life Bldg., for 10-story, 75 x 100-ft. addition. About $200,000.

Tex., El Paso—Station—St. Louis & San Francisco Ry. and Atchison, Topeka & Santa Fe Ry. completed plans and will soon let contract for Union Station. About $400,000. F. G. Jonah, St. Louis, ch. engr. of former company.

Tex., El Paso—Y. W. C. A. retained Lang & Mitchell, archts., to prepare plans building. About $75,000.

Tex., Ft. Worth—Hotel—Westbrook Hotel soon lets contract. About $200,000. L. W. Huckins, mgr. Noted Apr. 5.

Tex., Houston—Church—Trinity Congregation had plans prepared by W. W. Watkin, archt., Carolina Blvd., at Colman Ave. and Main St.

Tex., Sour Lake—School—Bd. Educ. completed plans and will soon let contract. About $75,000. Noted Apr. 5.

Buildings (Continued)

Okla., Ardmore—Hotel—Ardmore Hotel Co. soon lets contract, 6-story, 100 x 100-ft. H. L. Sturm, secy. Wight & Wight, 401 First Natl. Bank Bldg., Kansas City, Mo., archts.

Okla., Bartlesville—Lodge and Office—Masonic Bodies, c/o H. Weber, M.D., having plans prepared by J. H. Felt & Co., archts., 800 Grand Ave., Temple, Kansas City, Mo., 8-story, 100 x 140-ft. About $275,000.

Okla., Enid—High School—City defeated $50,000 bonds to build high school. Noted Apr. 26.

Okla., Miami—Hotel—Miami Hotel Co. plans, 7-story, 100 x 120-ft. A. J. Bellis, archts., 615 Orear-Leslie Bldg., Kansas City, Mo., preparing plans.

Okla., Muskogee—(Official)—School—State Bd. Pub. Affairs, Oklahoma, receiving bids in June for addition to School for Blind. About $50,000. C. W. Dawson, Iowa Bldg., archt. Noted May 3.

Okla., Nowata—School—Bd. Educ. plans. About $50,000. D. M. Lawson, secy. W. H. Sayler, archt., 606 Gamble Bldg., Kansas City, Mo., preparing plans.

Okla., Ponca City—Hotel—Ponca City Hotel Co. plans, brick and rein.-con., about $150,000. Layton & Smith, 701 Majestic Bldg., Oklahoma, archts.

Okla., Sapulpa—High School—Bd. Educ. plans, 3-story, 115 x 170-ft. About $200,000. J. W. Young, secy. C. A. Popkin, archt., preparing plans. Noted Apr. 19.

Okla., Tulsa—Y. W. C. A. receiving bids about June 1, 4-story, brick, stone, terra cotta and concrete building. About $150,000. C. K. Birdsall, 1002 Commerce Bldg., Kansas City, Mo., archt. H. A. Noble, 1118 McGee St., Kansas City, Mo., struct. engr.

Colo., Denver—Club—Denver Athletic Club, 1325 Glenarm Pl., plans, 12-story. About $500,000.

Colo., Rocky Ford—(Official)—City voted $100,000 bonds to build schools. R. W. Boney, secy., School Bd. Noted Apr. 19.

Colo., Trinidad—(Official)—School—Local School Dist. defeated $100,000 bonds to build school. Project suspended. F. Jones, secy. Noted Apr. 26.

Utah, Ogden—School—City voted $200,000 bonds to build school. Noted Apr. 19.

Ariz., Tucson—School—Bd. Educ. having plans prepared by H. O. Jaasted, archt., 96 Stone Ave., 2-story, brick, on Safford School site. About $100,000.

Ore., Enterprise—School—Bd. Educ. soon receives bids. About $60,000. Tourtelotte & Hummel, archts., Rothchild Bldg., Portland, prepared plans.

Ore., Portland—School—Bd. Educ. soon receives bids addition to Franklin High School, about $130,000; also to Woodstock School, about $40,000. F. A. Naramore, Court House, supt. school properties.

Cal., Coalinga—(Official)—School—A. T. Borst, secy., Bd. Trustees, receiving bid about June 5 for intermediate school, 3 buildings. About $100,000. Noted Apr. 26.

Cal., Oakland—Hospital, Etc.—See "Structural Steel."

Cal., Pasadena—Hotel—H. Fisher had plans prepared by E. Grey, archt., 811 Wright and Callender Bldg., Los Angeles, 3-story. About $50,000.

Cal., Richmond—Terminals—See "Miscellaneous."

Cal., San Francisco—Schools—Bd. Educ. plans to hold election to vote on $3,500,000 bonds to build new schools and make improvements. G. Gallagher, pres.

Ont., Toronto—Schools—City plans election to vote on $642,000 bonds to build schools.

Alta., Calgary—School—Provincial Government plans Normal School. J. R. Boyle, Edmonton, min. of educ.

Bids Desired

Mass., Gardner—(Official)—School—Until May 21 by F. T. Reynolds, supt. schools, school on Coleman St. About $60,000. F. I. Cooper, corp., 33 Cornhill, Boston, archts. Noted May 3.

N. J., Hoboken—School—Until May 29 by Bd. Educ., for P. S. No. 3, Adams and 5th St. J. F. Fagan, 95 River St., archt.

N. J., Paterson—School—Until May 24 by H. B. Crosby, archt., 1st Natl. Bank Bldg., School No. 6, Grand Ave. and 18th St., 4-story, 132 x 200-ft., brick, concrete and steel. About $275,000. Noted Apr. 26.

Ga., Savannah—School—Until May 21 by Bd. Educ. of Savannah and Chatham Cos. Lavy & Clarke, Germania Bldg., archts.

Fla., Jacksonville—School—(Official)—Until June 9 by Bd. Pub. Instruction, Room 203, Court House, brick, 5th and Hubbard St. R. A. Benjamin, Bisbee Bldg., archt.

O., Canton—(Official)—Grade School—Until June 6 by W. C. Lane, clk. About $100,000. C. C. & A. L. Thayer, Commercial Bldg., New Castle, Pa., archts. Noted May 3.

O., Celina—(Official)—Parochial School—Until May 21 by Trustees, of Immaculate Conception Congregation, for 2-story, 67 x 135-ft. About $60,000. A. deCurtins, 502 Opera House Blk., Lima, archt. Noted May 3.

Ind., Lafayette—Armory—Until May 24 by Purdue University, brick, concrete and steel. About $175,000. A. Dufty, Smith Hall, Purdue University, supt. bldg.

Mich., Ironwood—School—Until May 21 by Bd. Educ., 3-story, 70 x 150-ft. About $90,000. G. N. Sleight, secy. C. J. Anderson, Wilner Bldg., Green Bay, Wis., archt.

Ill., Kewanee—Hospital—Until May 21 by St. Francis Hospital, 515 East Elliott St., 4-story, 40 x 50-ft. addition. About $60,000. H. B. Dox, 317 Woolner Bldg., Peoria, archt.

Wis., Rice Lake—High School—Until May 24 by Bd. Educ. 2-story, 60 x 100-ft., brick, concrete and hollow tile. About $50,000. E. J. Hancock, Eau Claire, archt.

Kan., Ness City—Court House—Until June 5 by Co. Comrs., 2-story, brick, stone and concrete. About $65,000. F. B. Norris, clk.

N. D., Drake—(Official)—High School—Until June 4 by School Bd. About $65,000. W. D. Gillespie, 64½ Bway., Fargo, archt. Noted Apr. 26.

Prices and Contracts Awarded

(★Indicates award of contract)

★N. H., Exeter—Gymnasium and Swimming Pool—Phillips Exeter Academy let contract to Holt-Fairchild Co., Old South Bldg., Boston, $150,000.

★Mass., Boston—Theatre, store and Bowling Alley—Codman Square Theatre let contract, 2-story, 70 x 230-ft., to Haynes Constr. Co., 40 Court St., $175,000.

★Mass., Chicopee—High School—Bd. Educ. let contract to G. T. Kelly, 22 John St., Yonkers, N. Y., about $325,800. Noted Feb. 8.

★Mass., Springfield—School—Bd. Educ. let contract, 2-story, 160 x 170-ft. to W. A. Newton & Co., 150 Birnie Ave., $225,000.

Mass., Swampscott—School—Bd. Educ. received low bid, 2-story, brick, from C. S. Cunningham & Sons Constr. Co., 7 Water St., Boston, $62,889.

★Conn., Fairfield—School—Bd. Educ. let contract school in Southport Dist. to J. D'Agostine, Bridgeport, $50,000. Noted Apr. 12.

★Conn., Stratford—School—Town let contract to Churchill Co., 143 Harrison Ave., Boston, Mass., $50,000.

★Conn., Waterbury—High School—Bd. Educ. let contract 3-story addition to Norcross Bros. Co., 10 East Worcester St., Worcester, Mass., about $324,000.

★N. Y., Brooklyn—Theater—Brevoort Holding Co., 1123 Cary St., will build 2-story, 120 x 172-ft. by day labor. About $225,000.

★N. Y., Great Neck—Bathhouse—See "Miscellaneous."

★N. Y., New York—Theater—E. F. Rush, Times Bldg., let contract, brick and steel, to Jardin Co., 507 5th Ave., $75,000.

N. J., Jersey City—School—Bd. Educ. received low bids school on 8th St. from A. W. Cronin Sons, Jersey City, $128,897.

★N. J., Lodi—School—Boro. let contract to Ferber Constr. Co., 16 Johnson Ave., Hackensack, $75,000.

★Wash., D. C.—Bank and Office—Commercial Natl. Bank let contract, 9-story, to F. L. Wagner, 1413 H St., $400,000. Noted Apr. 12.

★Va., Bristol—College—King's College let contract 1- and 3-story to P. J. Pettyjohn & Co., 8th St., Lynchburg, $250,000.

★O., Cleveland—Bank—Cleveland Trust Co. let contract, East 40th St. and St. Clair Ave., to J. E. Christian Constr. Co., 1119 Superior Ave. About $50,000.

★O., Cleveland—School and Church—East End Baptist Congregation let contract additions and alterations to school and church, Euclid Ave. and East 92nd St., to Paul Bros. Constr. Co., 615 Citizens Bldg., $50,000.

★O., Findlay—Exchange—Central Telephone Co. let contract to Alge Bros., $100,000.

★O., Portsmouth—Bank and Store—Security Savings Bank & Trust Co. let contract, 2-story, to Cullen & Vaughn, 8 East Broad St., Columbus, $60,000.

★O., Youngstown—(Haselton)—School—St. Elizabeth Congregation let contract, on Haseltine Ave., to J. C. Dulovich, 126 South Pearl St., $80,000.

★Ill., Urbana—Library—Urbana Library Bd. let contract, Race and Elm Sts., to A. W. Stoolman, 1001 South 3rd St., Champaign, $50,000.

Wis., Waukesha—High School—Bd. Educ. received low bid from J. P. Cullen, Janesville, $149,672. G. B. Harris and A. S. Futney, dirs. Noted Apr. 26.

★Ia., Des Moines—School—Bd. Educ. let contract, 2-story, brick, stone and concrete, to A. H. Newmann & Co., 518 Hubbell Bldg., $60,000. Noted Mar. 8.

★Ia., Sioux City—Mausoleum—Mt. Ca... Cemetery Assn. let contract to An... Mausoleum Co. Cost, $100,000.

★Ia., Sioux City—Theatre—T. S. Martin ... tate, c/o J. E. Martin, 515 4th St., let con... to Ruschn & Sanborn, 502 United Bank Bl... Sioux City, $100,000.

★Kan., Ellsworth—High School—Bd. Educ. ... contract, 2-story, to J. T. Dalton, Junction ... about $75,000.

Neb., Hastings—High School—Bd. Educ. ... ceived low bids from D. Richey, Hastings, ... $125,000.

★Neb., Hastings—High School—Bd. Educ. ... contract to Olson & Johnson, 515 North Hig... St., Missoula, Mont., $126,930. Noted Apr. 26.

★Neb., Omaha—Club—Omaha Athletic Club ... contract, 18-story, on Douglass St., to Selden Breck Constr. Co., 537-9 Keeline Bldg., $500,000. Noted Apr. 5.

★N. D., Minot—Hospital—St. Joseph's Hospital ... let contract to W. B. Knightly, Minot, $50,177.

★Mont., Glacier—Park—Hotel—Glacier Park Hotel Co., 1015 Railroad Bldg., St. Paul, ... contract, 1-story, to E. G. Evensta Co., 301 North West Bldg., Minneapolis, $100,000.

★Okla., Sapulpa—Office—Clayton Estate ... contract, 5-story, to Manhattan Constr. Co., Muskogee, about $110,000. Noted Apr. 5.

Ore., Salem—Receiving Ward—Oregon State Hospital for Insane received low bid from G. Isackson, 1013 East Irving St., Portland, $57,642. Noted May 3.

★Cal., Los Angeles—Store—See "Reinforced Concrete."

FEDERAL GOVERNMENT WORK

Proposed Work

Mass., Boston—Storehouse—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., preparing plans.

Pa., Ft. Mifflin—(Phila. P. O.)—Mine Storage Building—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., preparing plans.

Pa., Phila.—Caisson Gates—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., preparing plans, for dry docks at Phila. and Norfolk, Va. Navy Yards.

Pa., Phila.—Derricks, etc.—Bureau Yards and Docks (F. R. Harris, ch.) Navy Dept., Wash., preparing plans battery shed, derricks and cranes.

Del., Wilmington—Dredging—U. S. Engr. Office, Old Federal Bldg., Wilmington, rejected bids. Chester River.

Wash., D. C.—Building—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., preparing plans alterations to Buildings Nos. 108 and 44. About $73,000.

Wash., D. C.—Buildings—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., preparing plans 15 mine storage buildings for various points; also for magazine buildings for various ammunition depots.

Va., Norfolk—Caisson Gates—See "Phila., Pa."

Va., Norfolk—Traveling Cranes—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., preparing plans.

W. Va., Wheeling—Power House—U. S. Engr. Office received no bids, power house at Dam No. 24, Ohio River. Noted Apr. 5.

Fla., Pensacola—Storehouse and Magazines—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., prepared plans. Noted Apr. 26.

Tenn., Chattanooga—Post Office—J. A. Wetmore, superv. archt., Treas. Dept., Wash., rejected bids, extending.

O., Fremont—Post Office—J. A. Wetmore, superv. archt., Treas. Dept., Wash., rejected bids. Noted May 3.

Wis., Sparta—Post Office—J. A. Wetmore, superv. archt., Treas. Dept., Wash., rejected bids.

Cal., Vallejo—Dredge—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., rejected bids bucket dredge for Puget Sound Navy Yard.

Cal., Vallejo—Dredging—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., preparing plans, Mare Island Navy Yard.

Bids Desired

Mass., Watertown—Erecting Shop, etc.—Until May 23 by Watertown Arsenal, erecting shop, tunnel and coal conveying apparatus, addition to smith shop, projectile shop, power house and coal pocket.

Conn., Bridgeport—Post Office—Until June 11 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.

N. Y., New York—Building—Until May 25 by Quartermaster, Eastern Dept., Governors Island, 6-set officers' quarters, brick, Governors Island; advertised in this issue.

N. Y., New York—(Official)—Dredging—Until June 11 by U. S. Engr. Office, Room 710, Army Bldg., 39 Whitehall St.; advertised in this issue.

Pa., State College—(Official)—Post Office—Until June 12 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.; advertised in this issue.

Federal Government Work (Continued)

Del., Wilmington—Dredging—Until June 4 by U. S. Engr. Office, Old Federal Bldg., Wilmington, Murderkill and Mispillion Rivers, Del.; advertised in this issue.

Md., Cambridge—Post Office—Until June 21 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.

Wash., D. C.—Paving—Until May 21 by O. P. Newman, dist. comr., Room 509, Dist. Bldg., paving various streets and avenues with sheet asphalt, asphalt and asphalt block.

Wash., D. C.—Pumping Outfit—Until May 22 by Bd. Awards, Dept. Agriculture. R. M. Reese, ch. clk.

Wash., D. C.—Towers—Until May 28 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., 3—600-ft. steel towers with concrete footings at U. S. Naval Radio Station, El Cayey, P. R.

Wash., D. C.—Turbo Generators, Etc—Until May 21 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., furnishing and installing 500- and 750-kw. turbo generators and 2500-, 3125-, 3750- and 4375-kv.a. turbo-alterators for various navy yards. Noted May 3.

S. C., Beaufort—Post Office—Until June 20 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.

Fla., Lakeland—Post Office—Until May 23 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.; advertised in this issue.

Ala., Montgomery—Cement—Until June 16 by U. S. Engr. Office, Montgomery; advertised in this issue.

O., Akron—Post Office—Until June 18 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.

Ill., Aledo—Post Office—Until June 19 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.; advertised in this issue.

Ill., Charleston—Post Office—Until May 25 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.

Wis., La Crosse—Post Office—Until May 28 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.

Minn., Ft. Snelling—Roadwork—Until May 30 by Dept. Quartermaster, Federal Bldg., Chicago.

Minn., Montevideo—Post Office—Until June 19 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.

Kan., Cherryvale—Public Building—Until June 14 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.

Kan., Girard—Post Office—Until May 21 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.

Wyo., Ft. Laramie—Canal—Until June 6 by U. S. Rec. Ser., Ft. Laramie, 5.7-mi. main canal on Ft. Laramie Unit, North Platte Project, Nebraska-Wyoming, involving about 336,500 cu.yd. excavation, near Bridgeport-Guernsey line of Chicago, Burlington & Quincy R.R. near Torrington.

Ark., Prescott—Post Office—Until May 22 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.

Tex., Denton—Post Office—Until June 8 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.

Colo., Denver—Cement—Until May 23 by U. S. Rec. Ser., United States Tramway Bldg., Denver, furnishing 75,000 bbl. portland cement, f.o.b. cars at works of bidder. R. F. Walter, act. ch. of constr.

N. M., Raton—Post Office—Until June 13 by J. A. Wetmore, superv. archt., Treas. Dept., Wash.

Wash., Bremerton—Cranes—Until May 28 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., for 4—15-ton traveling, revolving, hammerhead shipbuilding cranes at Puget Sound Navy Yard. Noted May 3.

Cal., Golden Gate—(Oakland P. O.)—Coast Guard Station—Until June 6 by U. S. Coast Guard, Custom House, San Francisco, constructing Coast Guard Station No. 324; advertised in this issue.

Cal., Threerivers—Bridge—Until June 14 by Dept. Interior, Natl. Park Ser., Wash., 1 cantilever truss timber bridge over Marble Fork of Kaweah River in Sequoia Natl. Park, Cal. B. Sweeney, secy.

Prices and Contracts Awarded

(★Indicates award of contract)

★**Me., Portland**—Steerage Barracks—J. A. Wetmore, superv. archt., Treas. Dept., Wash., let contract for quarantine station, to Mahoney Constr. Co., $63,918. Noted May 3.

★**Conn., New London**—Dredging—U. S. Engr. Office, let contract, Connecticut River, below Hartford, to Hartford & New York Transportation Co., 285 State St., Hartford, $16,000. Noted Apr. 5.

Pa., Ft. Mifflin—(Phila. P. O.)—Buildings—Bureau Yards and Docks, Navy Dept., received low bids 3 magazines and 1 shell house, also office building, Ammunition Depot at Ft. Mifflin, (a) work complete, (b) one magazine building, (c) shell house, (d) office, from McCloskey & Bahls, 1620 Thompson St., Phila., (a) $166,743, (b) $41,059, (c) $48,534; J. H. Wiese, City Natl. Bank Bldg., Omaha, (a) $171,737, (b) $38,135, (c) $44,800, (d) $11,592; F. W. Mark Constr. Co., Finance Bldg., Phila., (a) $195,000, (b) $43,800, (c) $57,000, (d) $8000. Noted Apr. 19.

Pa., Ft. Mifflin—(Phila. P. O.)—Fence—Bureau Yards and Docks, Navy Dept., Wash., received bids, May 7, Naval Ammunition Depot, from Enterprise Iron Works, 24th and Zandes Sts., Indianapolis, $2+,917 (total); Cyclone Fence Co., Waukegan, Ill., 10,800 ft. at $1.94 per ft., total, $20,952; $3.50 per ft. for gate, and $4.50 per ft. for sliding gate; alternate bid, $2.05 per ft., total $22,140. Noted May 3.

Pa., Media—Post Office—J. A. Wetmore, superv. archt., Treas. Dept., Wash., received only bid from W. H. Fissell & Co., 1133 Broadway, New York City, $47,500. Noted Apr. 12.

★**Md., Baltimore**—Dredging—U. S. Engr. Office, Baltimore, let contract, Elk River, to W. H. French Dredging & Wrecking Co., Inc., Arcade Bldg., Norfolk, 25c. per cu.yd. Noted Apr. 26.

Md., Indian Head—Sulphur Storehouse and Elevator House—Bureau Yards and Docks, Navy Dept., Wash., received low bids, May 7, (a) work complete, (b) sulphur house complete, (c) elevator house complete omitting bucket elevator, (d) bucket elevator, from J. H. Nolan Constr. Co., Munsey Bldg., Wash., (a) $39,871, Penn. Bridge Co., Bond Bldg., Wash., (b) $21,326, (c) $2,595. Noted Apr. 26.

Wash., D. C.—Buildings—Bureau Yards and Docks, Navy Dept., Wash., received bids, contagious wards for Naval Hospitals, (a) Newport, R. I., (b) Portsmouth, N. H., (c) Norfolk, Va., (d) Great Lakes, Ill., from R. V. Richardson, Hampton, Va., (c) $73,432; C. E. Carson Co., 155 North Clark St., Chicago, (d) $29,400; Darling Slade Constr. Co., Newport, R. I., (a) $28,300; R. R. Richardson & Co., Norfolk, Va., (c) $48,420; N. B. Smyth, 417 East 34th St., New York City, (a) $40,959, (b) $43,368; Seay Bros., Norfolk, Va., (c) $52,000; J. Jeffrey Co., 127 North Dearborn St., Chicago, (a) $32,415, (d) $35,415; Newport Contr. & Engr. Co., Newport News, Va., (c) $48,100; C. W. Pence, Waukegan, Ill., (d) $37,400; M. Kelly, 51 East 48th St., New York City, (a) $25,257. Noted May 3.

★**Wash., D. C.**—Concrete Piers and Abutments—U. S. Engr. Office, rejected bids, for Key Bridge across Potomac River. Work will be done by day labor under supervision of War Dept. Noted Apr. 19.

★**Wash., D. C.**—Iron Posts—General Land Office, let contract to General Ventilating & Heating Co., 198 Milwaukee St., Milwaukee, $13,945 for small posts and $24,295 for large posts. Noted Apr. 12.

★**Wash., D. C.**—Structural Steel—E. Woods, supt. U. S. Capitol Bldgs. and Grounds, let contract, for use in reconstruction of courthouse, to Barber & Ross, 11th and G Sts., N.W., $23,000, less a reduction of $112 per ton. Noted Apr. 26.

★**W. Va., Wheeling**—Cement—U. S. Engr. Office, Wheeling, let contract, furnishing at Dams 21 and 22, Ohio River, to Universal Portland Cement Co., Frick Bldg., Pittsburgh, $90,000. Noted Apr. 26.

★**W. Va., Wheeling**—Lockkeepers Houses—U. S. Engr. Office, Wheeling, let contract, Dams 23 and 25, Ohio River, to E. N. Everson, Brilliant, $50,195. Bids on Dam 27 rejected. Noted Apr. 26.

Fla., Pensacola—Hangars and Erecting Shop—Bureau Yards and Docks, Navy Dept., Wash., received bids May 7, Navy Aeronautic Station, from McClintic-Marshall Co., 1421 Chestnut St., Phila.; H. Monk, 304 West Gregory St., Pensacola. Noted Apr. 26.

La., New Orleans—Crane—Bureau Yards and Docks, Navy Dept., Wash., received low bids, for Navy Yard, from Doullut & Williams, New Orleans, $29,000, S. T. Williams, 223 North Calvert St., Baltimore, $30,000; Bucyrus Co., South Milwaukee, Wis., $37,500. Noted Apr. 19.

★**Tenn., Memphis**—Riprap Stone—Mississippi River Comn., U. S. Engr. Office, Custom House, let contract to Ward & Brown, Little Rock, Ark., $12,250. Noted Apr. 12.

Mich., Detroit—Timber—U. S. Engr. Office, Detroit, received low bids, Apr. 30, furnishing and delivering at St. Mary's Falls Canal, Michigan, (a) 12 x 12-in., (b) 6 x 12-in., (c) 3 x 12-in., (d) 3 x 10-in., (e) 3 x 8-in., from H. J. Anderson Co., 520 Northwestern Bank Bldg., Portland, (a), (b), (c) and (e) $12.50 per M., (d) $12.25 per M.; Saari-Tully Lumber Co., 934 Northwestern Bank Bldg., Portland, all, $12.75 M., Duncan Lumber Co., P. O. Box 961, Portland, (a) and (b) $12.90 per M., (c) and (d) $12 per M., (e) $11 per M.

Wis., Beaver Dam—Post Office—J. A. Wetmore, superv. archt., Treas. Dept., Wash., received low bids, May 7, (a) limestone, (b) sandstone, from W. D. Lovell, 815 8th St., S.E., Minneapolis, (a) $48,325; G. W. Stiles Constr. Co., Rookery Bldg., Chicago, (a) $48,670, (b) $50,470; Michie Constr. Co., 86 Michigan St., Milwaukee, (a) $49,715, (b) $50,788. Noted Apr. 5.

★**Power Plant—Wash., Bremerton**—Bureau Yards and Docks, Navy Dept., Wash., let contract alterations, at Naval Torpedo Station, Puget Sound, to C. C. Moore & Co., Sheldon Bldg., San Francisco, $27,803.

MISCELLANEOUS

Proposed Work

Transmission Line—Bristol, Vt.—Hortonio Power Co., Rutland, plans to extend, to Monkton, Monktonridge (North Ferrisburg P. O.) and Hinesburg, to supply electricity in villages named and farms between Brandon and Hinesburg. I. M. Frost, Gryphon Bldg., Rutland, vice-pres. and gen. mgr.

Transmission Line—Newfane, Vt.—Twin State Gas and Electric Co., Masonic Bldg., Dover, N. H., subsidiary of Middle West Utilities Co., 72 West Adams St., Chicago, is securing right-of-way for extension from Newfane to Townshend. W. G. Melvon, Dover, treas. and gen. mgr.

Transmission Line—Greenfield, Mass.—Greenfield Electric Light and Power Co. granted permission to extend, to Northfield Farms. G. W. Lawrence, Greenfield, treas. and gen. mgr.

Garbage Plant—Arverne, N. Y.—M. Connolly, boro. pres., Hunters Point Bldg., Jackson Ave. and 4th St., Long Island City, having plans prepared by J. P. Powers Co., archts., Blvd., Rockaway Beach, for a 2-story, 38 x 57-ft. garbage plant. About $100,000.

Elimination of Grade Crossings—Brooklyn, N. Y.—Pub Ser. Comn. approved report of Act. Ch. Engr., together with opinion by H. W. Hodge, comr., and adopted resolution authorizing certificate of completion of work on alterations of former grade crossing on Long Island R.R. at Fresh Pond Rd. and Metropolitan Ave., Bushwick Junction. J. R. Savage, Jamaica, ch. engr.

Elimination of Grade Crossings—Buffalo, N. Y.—City plans, at Buffalo St. Cost, including paving under tracks, $32,000. C. G. Jones, city engr.

Subway—Phila., Pa.—T. B. Smith, mayor, approved ordinance authorizing construction and improvement of subway located mainly under Chestnut St., as connection between elevated railways leading to Frankford and Darby. C. Albright, city engr.

Motor Speedway — Warminster, Pa. — Phila. Motor Speedway Assn., Morris Bldg., Phila., voted $350,000 appropriation to construct, about 2 mi. long.

Fire Alarm System—Thomasville, Ga.—See "Streets and Roads."

Transmission Line—Sparta, Wis.—Wisconsin-Minnesota Light & Power Co. plans, 90-mi., connecting Sparta, Tomah and LaCrosse with present terminus of Wisota power plant at Nelson, Wis. A. E. Pierce, Eau Claire, 2nd vice pres. and gen. mgr.

Dam—Ft. Scott, Kan.—City having plans prepared by Black & Veatch, engrs., Interstate Bldg., Kansas City, Mo. About $30,000.

Garbage Plant—Lincoln, Neb.—City voted $50,000 bonds to install garbage plant for which plans are being prepared. A. Dobson, city engr.

Transmission Line—Ft. Smith, Ark.—Ft. Smith Light and Traction Co., controlled by Standard Gas and Electric Co., 206 South La Salle St., Chicago, plans, from Ft. Smith to Huntington, to furnish electrical service in Huntington. T. G. Kelly, Ft. Smith, supt. and claim agt.

Subway—Jonesboro, Ark.—St. Louis & Southwestern Ry., St. Louis & San Francisco Ry. and Jonesboro Lake City & Eastern R.R. are having surveys made for subway to be built in connection with model road of Jonesboro-Nettleton Rd. Dist. C. D. Purdon, Railway Exchange Bldg., St. Louis, Mo., ch. engr. of former company.

Levee—Dallas, Tex.—County election May 26 to vote on $108,000 bonds to construct Dallas Co. Levee and Improv. Dist. No. 2. Levee will connect with Ellis Co. Levee Dist. No. 3 on west side of Trinity River.

Grandstand—North Yakima, Wash.—State Fair Assn. soon receives bids, concrete and wood, at fair grounds. M. Deveaux, archt., prepared plans. About $20,000. F. Meredith, secy. E. F. Benson, comr. of agriculture.

Stone Unloader—Seattle, Wash.—Pioneer Sand & Gravel Co., Northern Bank & Trust Bldg., plans to purchase.

Harbor Improvements—Newport, Ore.—County voted $418,000 bonds to enlarge ports of Newport and Toledo on Yaquina Bay. Entire project will cost $836,000, of which U. S. Government will bear part. Noted Apr. 19.

Harbor Improvements—Long Beach, Cal.—City will improve Long Beach Harbor. About $300,000 available for work. A. deRing, city engr.

Elimination of Grade Crossings—Los Angeles, Cal.—Pacific Electric Ry. and City plans, at Mission Rd. in Rose Hill Dist. J. McMillam, Pacific Electric Bldg., gen. mgr. of R.R. H. Hamlin, city engr.

Docks, Etc.—Richmond, Cal.—John Nicholl Co., W. G. Henshaw, A. S. Macdonald and Crook Estate organized Nicholl Terminal Holding Co. to act as holding company for 99-year leases to be given to an English syndicate which plans to establish docks and terminals for rail and steamer on water front. Plans include 2 docks, each 1000 ft. long, to connect with Southern Pacific and Atchison, Topeka & Santa Fe railways and terminals for freight shipments. About $5,000,000.

Dam—San Diego, Cal.—See "Reinforced Concrete."

Garbage Plant—San Diego, Cal.—W. H. Faust, Pasadena, submitted plans to F. M. Lockwood, mgr., to build. G. Cromwell, city engr.

Wharf—San Diego, Cal.—Normandy Packing Co. will construct 500-ft. wharf on Crosby St. in connection with fish cannery now being built.

Pier—San Francisco, Cal.—State Bd. Harbor Comrs. rejected bids for Pier No. 46. Will readvertise.

Miscellaneous (Continued)

Garbage Plant—Que., Montreal—P. E. Mercer, city engr., and C. Cote, controller, in favor of installing garbage destructor plant to cost $1,000,000.

Towers—Que., Three Rivers—Shawinigan Water and Power Co. plans 2 aluminum towers, 350 ft. high, on concrete foundation, to carry transmission line over St. Lawrence ship canal, about 5280 ft. J. C. Smith, 611 Power Bldg., Montreal, vice pres. and ch. engr.

Drydock—Ont., Hamilton—Canada Steamship Lines, Ltd., 9 Victoria Sq., Montreal, plans, here. About $250,000.

Breakwater—Orchard Beach, Ont.—Dept. Pub. Wks. of Dominion Government plans. R. C. Desrochers, Ottawa, secy.

Bids Desired

Subway—Brookline, Mass.—See "Reinforced Concrete."

Park Improvements—Albany, N. Y.—Until May 21 by Bd. Contract and Supply for Improving Hudson Park on Hudson Ave. F. R. Lanagan, city engr.

Bulkhead—New York, N. Y.—See "Reinforced Concrete."

Passenger Station, etc.—New York, N. Y.—(Official)—Until May 24 by Interborough Rapid Transit Co., 165 Broadway, for completion of passenger station, electric lighting and electric heating system on 7th Ave. line, Routes 4 and 38. Pelham Bay Park Branch of Lexington Ave. line, Route 5, Sect. 15 and Routes 19 and 22, Sects. 1 and 1-A, Lexington Ave. line, Route 5 (Manhattan and Bronx Boros.) G. H. Pegram, ch. engr.

Refrigeration Equipment, Etc.—Thiells, N. Y.—(Official)—Until May 29 by F. A. Vanderlip, pres. bd. mgrs. Letchworth Village, 7 Wall St., New York City; advertised in this issue.

Dock Wall, Etc.—Troy, N. Y.—(Official)—Until May 31 by Harbor & Dock Comn., City Hall; advertised in this issue.

Pier—Sewalls Point, Va.—Until May 21 by W. W. Gwathmey, engr., 627 Seaboard Bank Bldg., Norfolk, and B. F. Cresson, engr., 50 Church St., New York City, for shore portion of Municipal Pier No. 1. Noted Apr. 19.

Retaining Walls—Fayetteville, W. Va.—See "Streets and Roads."

Flood Protection—Columbus, O.—Until May 22 by G. Borden, dir., pub. serv., excavating test pits along Scioto River, connecting with river channel improvement.

Road Grader—Minn., Ivanhoe—Until May 22 by K. A. Hansen, co. aud.

Culverts—Roseau, Minn.—Until May 21, S. G. Bertilrud, co. aud., for furnishing various sizes of metal culverts during year.

Street Lighting System—Bayard, Neb.—(Official)—Until May 21 by C. Mantz, village clk.; advertised in this issue.

Boardwalk—Newport Beach, Cal.—Until May 21 by city for board walk on pile bents, 2800 ft. long and 12 ft. wide on Ocean Ave. P. E. Kressley, city engr.

Jetty—Newport Beach, Cal.—(Official)—Until June 4 by C. M. Crego, city clk.; advertised in this issue.

Prices and Contracts Awarded

(★Indicates award of contract)

★Earth Dam—Fitchburg, Mass.—(Official)—Bd. Water Comrs., City Hall, let contract to G. Rosse & Son, Leominster, $14,400. Noted Apr. 19.

★Dock—Buffalo, N. Y.—See "Reinforced Concrete."

★Seawall, Pier and Bathhouse—Great Neck, N. Y.—H. Bendel, 10 West 57th St., New York City, let contract, to P. T. Cox, 154 Nassau St., New York City.

Ballast—New York, N. Y.—(Official)—Pub. Serv. Comn., for 1st Dist., 120 Bway., received low bids supply of ballast for use in construction of rapid transit railroads from Upper Hudson Stone Co., 26 Cortlandt St., hard limestone, $47,800, and G. McCarthy, Jr., New Haven, trap rock, $54,250. Noted Apr. 26.

Garbage Incinerator—New Brunswick, N. J.—(Official)—Bd. Comrs. received low bids from Borge Incinerator Co., Flat Iron Bldg., New York City, $16,903; W. K. Herberts, McKeesport, Pa., $19,520; Nye Odorless Crematory Co., Norfolk, Va., $22,800. Noted Apr. 26.

★Pier, etc.—Newport News, Va.—Dock Comn. let contract pier and docks at Bush Bluff to Alsop & Pierce, Newport News, $145,000.

★Pier—Sarasota, Fla.—See "Reinforced Concrete."

★Retaining Wall—Indianapolis, Ind.—See "Reinforced Concrete."

★Park Improvements—Topeka, Kan.—City Comn. let contract improving Ripley Park to G. Senne, Topeka, $20,065.

★Transmission Line—Norfolk, Neb.—(Official) Nebraska Gas & Electric Co. will construct, from Norfolk to Hadar by day labor and will install 75-kw. and 100-hp. steam turbine. W. C. Ross, Woodman of World Bldg., Omaha, genl. mgr. Noted May 3.

★Levee—Pine Bluff, Ark.—(Official)—Farelly Lake Levee Dist. let contract team work for building levee across low land of Big Bayou Meto, Jefferson and Arkansas Cos. to E. J. Hahn, 833 South Trust Bldg., Little Rock, 200,000 cu.yd. enlargement 24.5c.; new levee work for drag line to R. H. & G. A. McWilliams, Exchange Bldg., Memphis, Tenn., 500,000 cu.yd., 26.5c. Noted Apr. 5.

Fill—Seattle, Wash.—Port of Seattle Comn. received low bids filling portion Salmon Bay from Puget Sound Bridge and Dredging Co., Central Bldg., $28,600; Standard American Dredging Co., $31,200.

★Wharf—San Francisco, Cal.—State Bd. Harbor Comrs. let contract Islais Creek Wharf to Healy-Tibbitts Constr. Co., Main and Market Sts., $60,680.

★Sweepers, Etc.—Montreal, Que.—City let contract furnishing sweepers to Comet Motor Co., Ltd., 307 University St.; flushers to A. Jennings & Co., 15 Wellington St.

★Wharf—Three Rivers, Que.—Canadian Iron Corp., St. Maurice St., let contract to C. Page, Des Anges St., $19,000.

Cardinell-Vincent Co.—George Vincent's holdings in the Cardinell-Vincent Co., of San Francisco, have been purchased by J. D. Cardinell, the president, who announces that the company's policy will remain unchanged. Ten years ago Mr. Vincent's experiments with "Vellum" tracing paper terminated in a commercial product, which was sold for a time in a desultory fashion by Mr. Cardinell, then a commission salesman operating in the vicinity of San Francisco. A year or two later the paper was introduced in the East, the price per roll of 20 yd. being $6, which was almost as high as the price of tracing cloth. The price of the paper has been reduced and its production has increased steadily. It is the company's present intention to supply the paper in sheets of various sizes, and Mr. Cardinell expects to visit New York in the near future for the purpose of purchasing the necessary machinery for cutting the paper into sheets.

The American Bridge Co. has removed its local offices to the Guardian Bldg., Cleveland, O.

Flad-Humphrey Engineering Co., St. Louis, Mo., incorporated to engage in the general practice of engineering. E. Flad, H. H. Humphrey and W. R. Humphrey, incorporators.

Pocatello Engineering and Machinery Co., Salt Lake City, Utah, incorporated by R. P. Fairbanks, W. J. Cruse and H. R. Waldo.

John J. White, La Crosse, Wis., and **Louis A. Geupel**, Evansville, Ind., have formed a partnership in La Crosse to engage in the general contracting business.

Few Bidders for Treasury Buildings—There has been a very noticeable falling off in the number of bidders for post-offices and other buildings constructed under the office of the Supervising Architect of the Treasury, as noted in last week's issue. Formerly for a post-office of the usual size—that is, costing $50,000 on the average—there were regularly form eight to ten bidders. This number has now dropped to an average of two or three bidders, in many cases only a single bid being received. The largest number of bids received for any one post-office since Apr. 1 has been six.

There is a marked tendency on the part of contractors to decline to bid on this class of work even on the part of those who habitually bid on post-office contracts. The change has taken place since the declaration of war and is undoubtedly due to the fear of war conditions. The contractors seem to be afraid to undertake any construction work for the government on account of the severe penalties for delay and non-performance. No ill effect has been sustained by the Supervising Architect's Office up to the present time, as it is within their province to make awards to contractors even if they are the only bidder, provided their bid is within the amount available, but it can easily be seen that if the tendency continues it may be impossible to obtain bids for post-offices.

The World's Largest Lumber Order is said to have been placed recently by the United States Government with the Southern Pine Association, to meet the war requirements for wooden ships, army barracks, etc. The Government has contracted for the purchase of more than two billion feet of Southern pine at a price of from $35,000,000 to $40,000,000. The total output of all the Southern Pine mills of Louisiana (the most important pine state) in 1915 was only 2.9 billion feet. The lumber will be delivered as required, deliveries extending over a period of several months. The Southern Pine Association has established a branch office in Washington, D. C., so that it may remain constantly in touch with the Government. Mills which will participate in the contract are located in the Southern States, and are said to include nearly all the members of the Southern Pine Association, the combined monthly output of whose plants averages 450,000,000 feet.

Beery Engineering Co., Inc., Rockford, Ill., has been incorporated to carry on a general engineering and construction business.

Canada Cement Co. has been taken over by a new company organized by C. C. Lapierre, Montreal, Que., who will operate the plant.

Josiah Tice Engineering & Surveying Corp., New Brunswick, N. J., has been incorporated to engage in the general practice of engineering and surveying. John T. Hopkins, J. W. Parsons, Highland Park; W. H. Baker, Deans, F. E. Tice, New Brunswick, incorporated.

BARGE CANAL WORK, ALBANY, N. Y.

Contract No. 138

Bids were received by W. W. Wotherspoon, Supt. Pub. Wks., Capitol, for Barge Canal Work, Contract No. 138, improving Erie, Oswego and Champlain Canals, from (A) Combined Construction Co., Rochester; (B) MacArthur Bros. Co., 120 Broadway, New York; (C) Lupfer & Remick, Ellicott Bldg., Buffalo. The unit bids were as follows:

	A	B	C
11,100 cu.yd. excavation	$1.80	$2.50	$2.00
46 M ft.b.m. sheeting and bracing	55.00	75.00	65.00
2,400 lin.ft. round timber bracing	.25	.40	.30
700 sq.ft. channeling	.60	1.00	.56
820 lin.ft. drilling holes in rock	1.20	1.00	1.00
1,800 cu.yd. forming embankment	.18	.25	.15
16 M ft.b.m. sawed lumber, yellow pine	70.00	90.00	80.00
5 M ft.b.m. sawed lumber, white oak	120.00	120.00	120.00
103 cu.yd. first-class concrete	12.00	15.00	14.00
7,370 cu.yd. second-class concrete	7.50	8.50	9.40
1,070 cu.yd. first-class concrete—reinforced	10.00	15.00	15.00
920 cu.yd. second-class concrete—reinforced	9.00	11.00	11.50
520 lin.ft. 18-in. vitrified pipe, laid	1.32	1.50	1.30
500 lin.ft. 8-in. vitrified pipe, laid	.42	.50	.40
230 lin.ft. 6-in. vitrified pipe, laid	.24	.30	.22
1,510,000 lb. structural steel	.088	.098	.098
90,500 lb. metal reinforcement	.06	.06	.06
30,000 lb. w. i. chains for Mohawk dam	.12	.15	.12
13,300 lb. pipe railing	.18	.20	.16
14,100 lb. embedded c. i. shoes for Mohawk dam	.084	.10	.10
1,270 lb. bronze in headgates	1.00	1.00	.60
113,000 lb. machinery	.21	.25	.20
Gate valves, sluice gates, etc., for sector gates (lump sum)	2,800.00	3,000.00	3,300.00
11 gate hoists	780.00	800.00	800.00
Indicator for sector gates (lump sum)	600.00	1,200.00	750.00
Weir tube equipment (lump sum)	2,400.00	3,000.00	2,300.00
Operator's house (lump sum)	2,640.00	3,000.00	2,200.00
45,000 lb. metal in winches	.22	.30	.25
2 electrical equipment for winches	1,320.00	1,200.00	1,300.00
Electrical equipment for operator's house (lump sum)	624.00	700.00	600.00
8 trolley brackets	30.00	35.00	30.00
2 trolley poles	60.00	75.00	60.00
3 lamp poles	120.00	120.00	120.00
3 outdoor lamp brackets	36.00	40.00	30.00
6 outdoor, 750-watt lamps	18.00	25.00	18.00
570 lin.ft. 400,000 C. M. lead covered conductors	1.44	2.00	1.30
300 lin.ft. No. 2 lead covered conductors	.60	.75	.50
850 lin.ft. No. 8 lead covered conductors	.24	.30	.22
900 lin.ft. No. 8 rubber insulated braided conductors	.14	.15	.14
116 lin.ft. No. 10 rubber insulated braided conductors	.12	.15	.12
570 lin.ft. No. 0 bare copper conductors	.30	.30	.30
5,460 lb. metal duct	.14	.20	.14
Maintenance accessories (lump sum)	210.00	250.00	210.00
Removing and rebuilding heating plant	2,016.00	2,500.00	2,900.00
Coffer-dams, pumping, bailing and draining	12,000.00	17,000.00	40,000.00
Extended totals	$321,115	$378,574	$389,439